TEMPERATURE, OXYGEN, PH AND DISSOLVED INORGANIC CARBON DATA SUMMARY FOR 8 LAKES IN THE MUSKOKA-HALIBURTON STUDY AREA (1982-1984)

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DATA REPORT DR 85/3

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DATA REPORT SERIES

The data presented in this report were collected by staff of the Aquatic Ecosystems Section of the Water Resources Branch of the Ministry of the Environment as part of the Lakeshore Capacity Study or the Acid Precipitation in Ontario Study. This unreviewed report does not necessarily reflect the views or opinions of the Ontario Ministry of the Environment.

TEMPERATURE, OXYGEN, pH AND DISSOLVED INORGANIC CARBON DATA SUMMARY FOR EIGHT STUDY LAKES IN THE MUSKOKA-HALIBURTON AREA (1982-1984)

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PREFACE

The unpublished Data Report Series is intended as a readily available source of basic data collected for lakes and watersheds in the Muskoka-Haliburton area of Ontario. These data were collected as part of the Lakeshore Capacity Study and/or the Acid Precipitation in Ontario Study.

The limnological portion of the Lakeshore Capacity Study (1975 - 1981) was initiated to investigate the relationships between lakeshore development and lake trophic status in low ionic strength Precambrian lakes. The Acid Precipitation in Ontario Study (1979 - to present) was initiated, in part, to investigate the effects of the deposition of strong acids on aquatic and terrestrial ecosystems in Ontario. The primary findings of these studies have been and will continue to be published as reviewed papers and technical reports.

ABSTRACT

Temperature, dissolved oxygen, pH and dissolved inorganic carbon (DIC) profile plots are presented for eight lakes in the Muskoka-Haliburton study area (1982 - 1984).

Girard, R. and R.A. Reid. 1985. Temperature, oxygen, pH and dissolved inorganic carbon data summary for eight lakes in the Muskoka-Haliburton Study area (1982 - 1984).

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INTRODUCTION

This data report summarizes the profile data collected routinely from 1982 - 1984. The lakes sampled include Basshaunt, Bigwind, Buck, Glen, Gullfeather, Little Clear, Solitaire and Walker. This report updates Reid et al. (1983); Reid et al. (1983) and Girard et al. (1983). The methodology used in the collection of this information is summarized by Scheider et al (1983).

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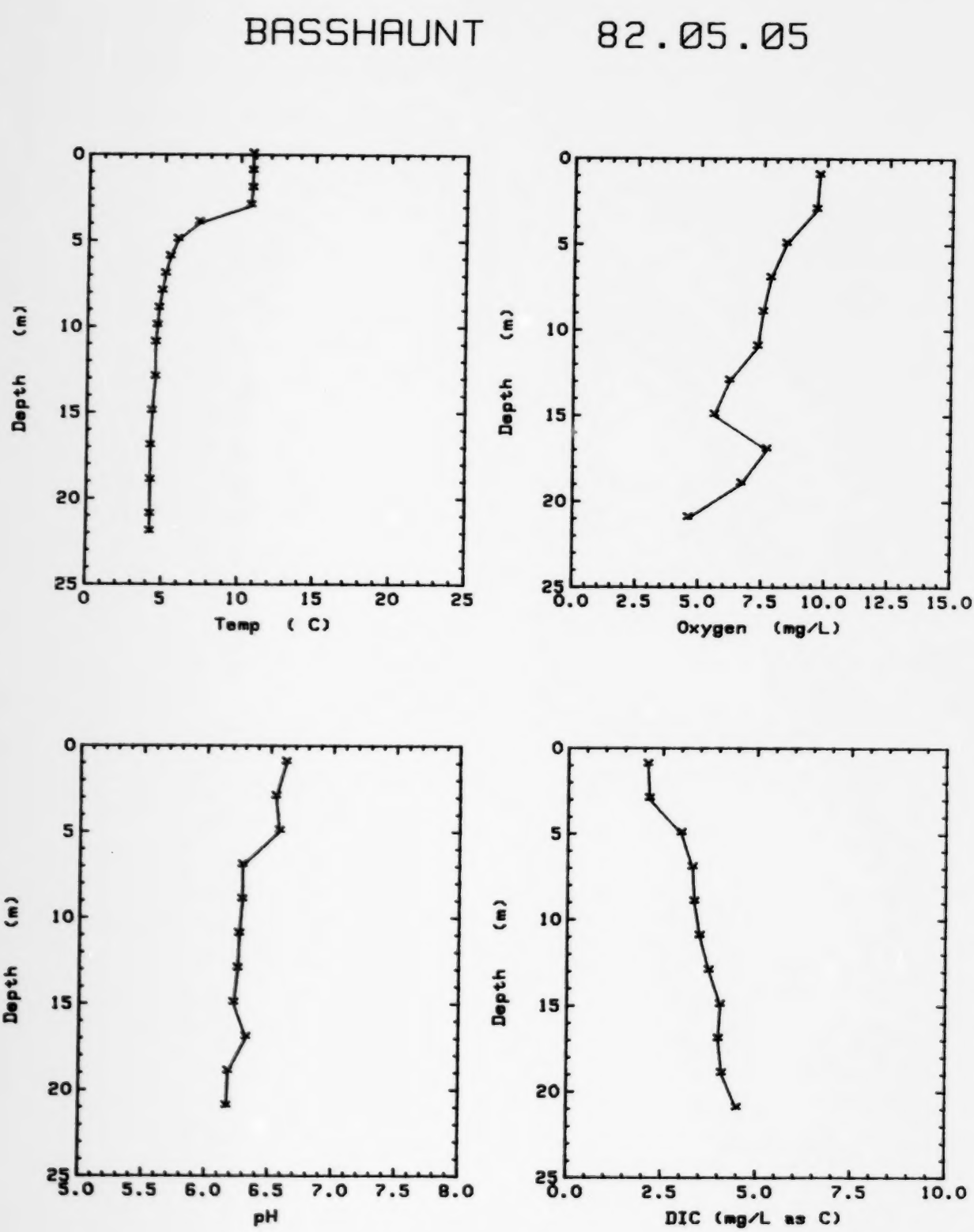
Reid, R.A., B. Locke, and R. Girard. 1983. Temperature Profiles on the Muskoka-Haliburton Study Lakes (1976-1983). Ontario Ministry of the Environment Data Report 83/4.

Reid, R.A., R. Girard, and B. Locke. 1983. Oxygen Profiles on the Muskoka-Haliburton Study Lakes (1976-1982). Ontario Ministry of the Environment Data Report 83/5.

Scheider, W.A., R.A. Reid, B.A. Locke, and L.D. Scott. 1983. Studies of lakes and watersheds in Muskoka-Haliburton, Ontario: Methodology (1976-1982). Ontario Ministry of the Environment Data Report 83/1.

Figures 1-15 - BASSHAUNT LAKE - (1982-1984)

Figure 1



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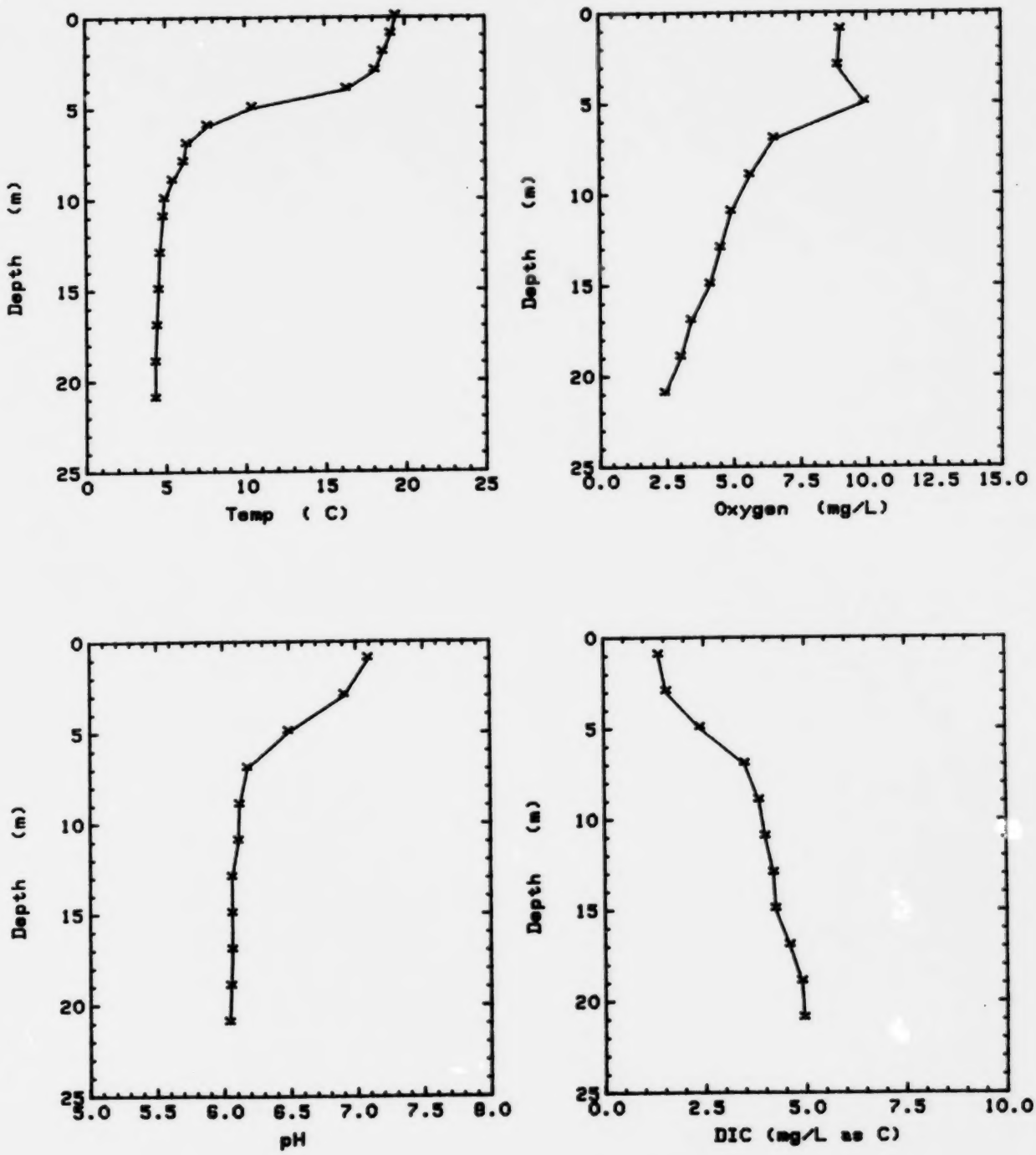

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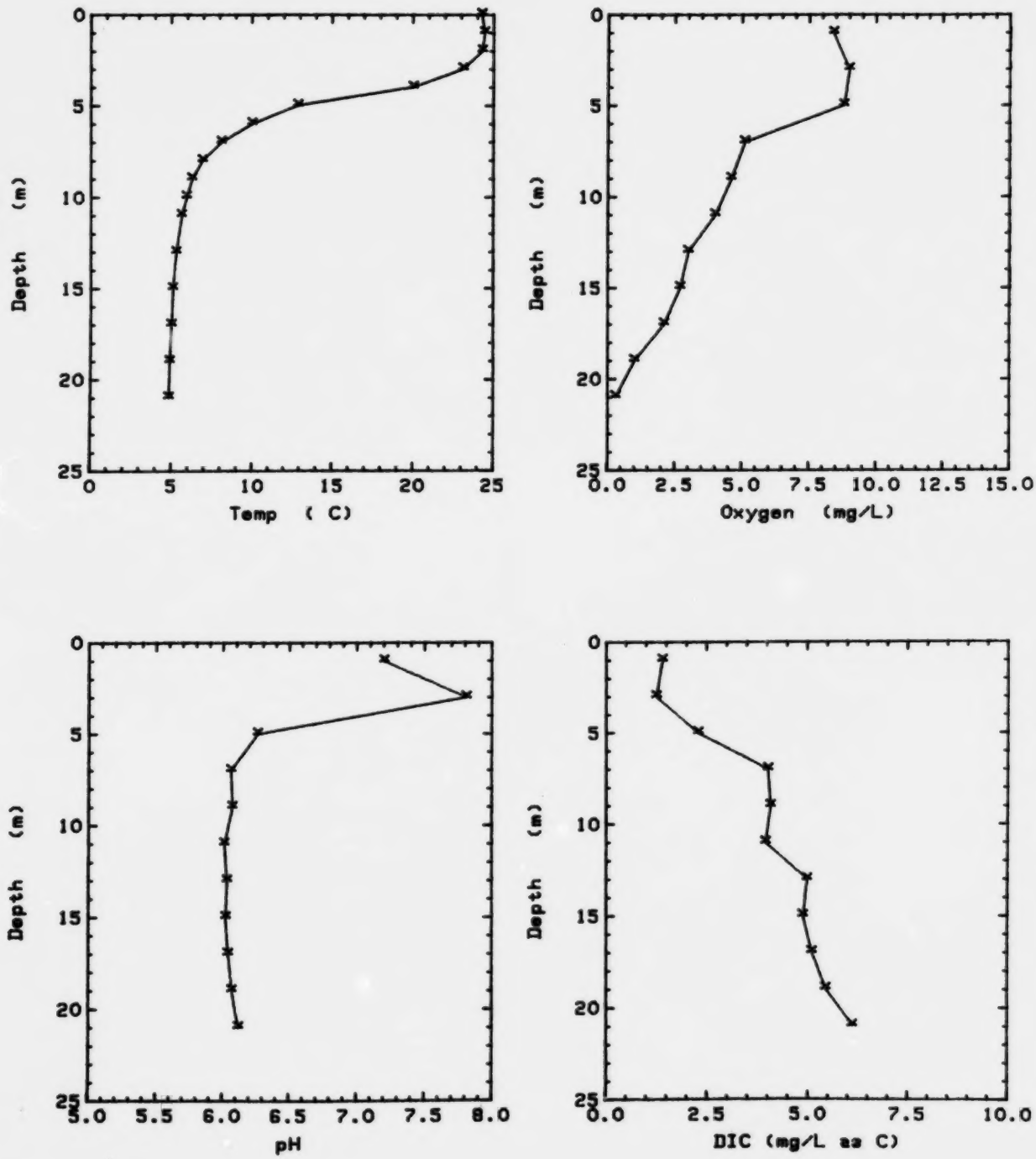

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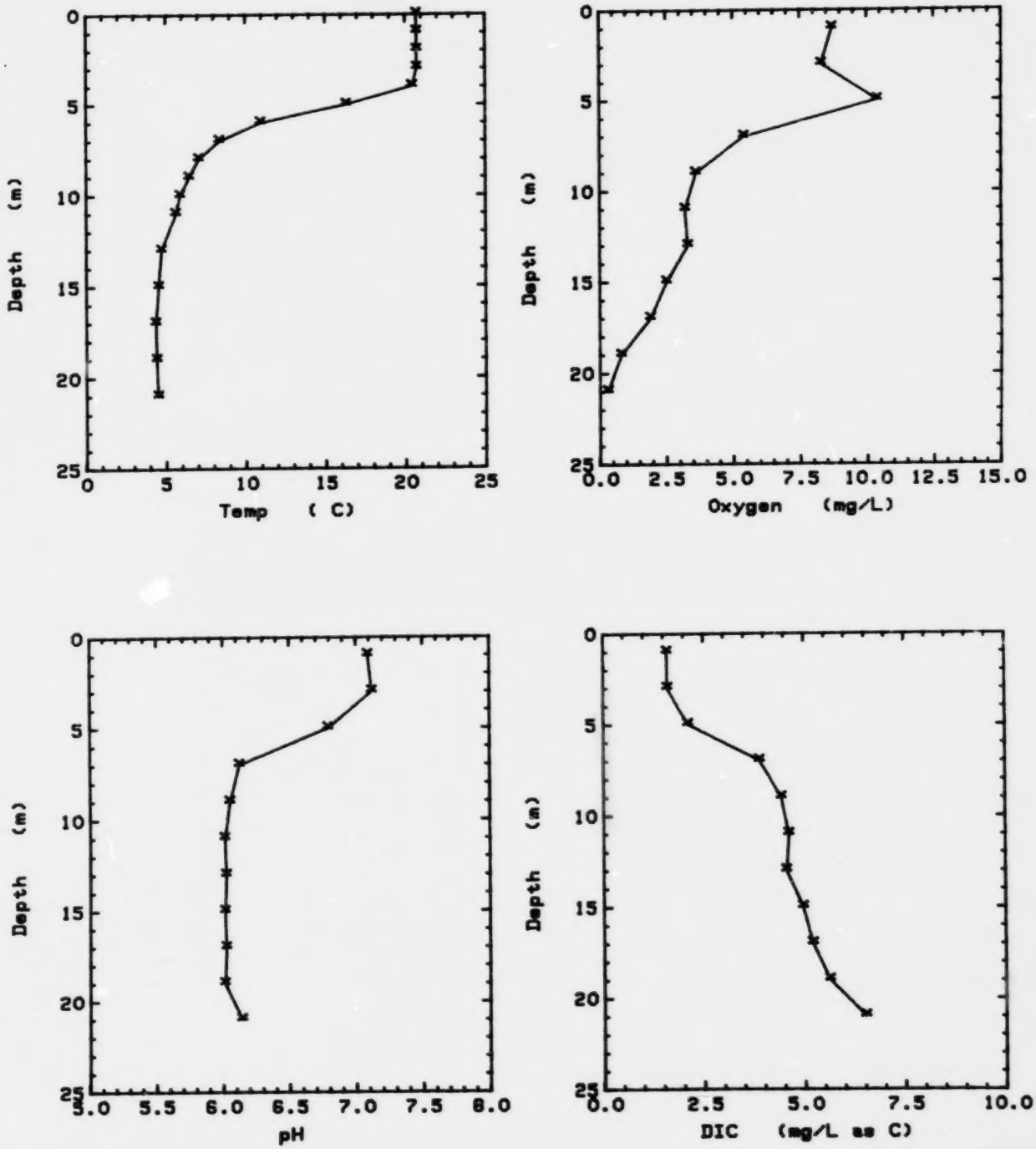

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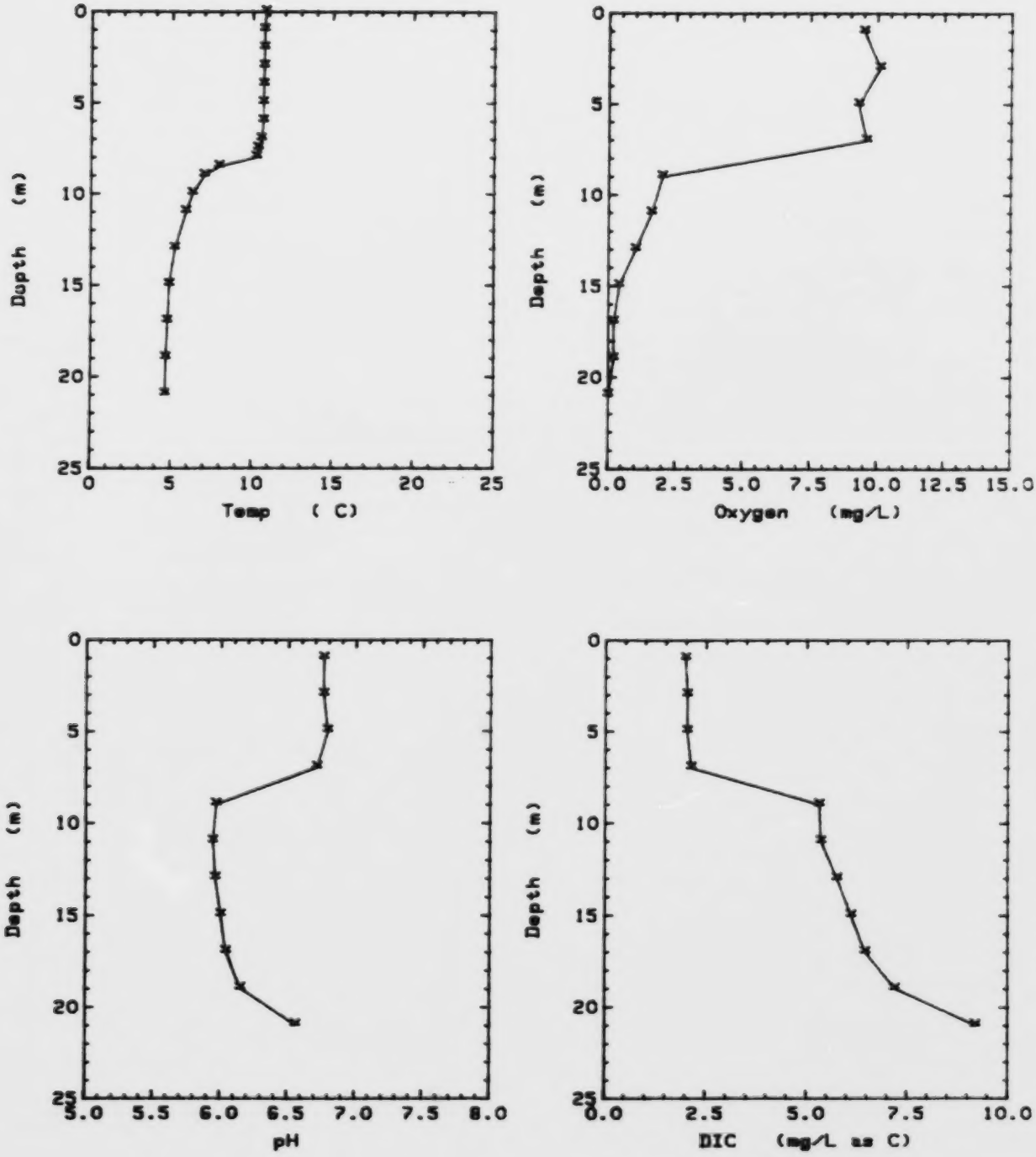

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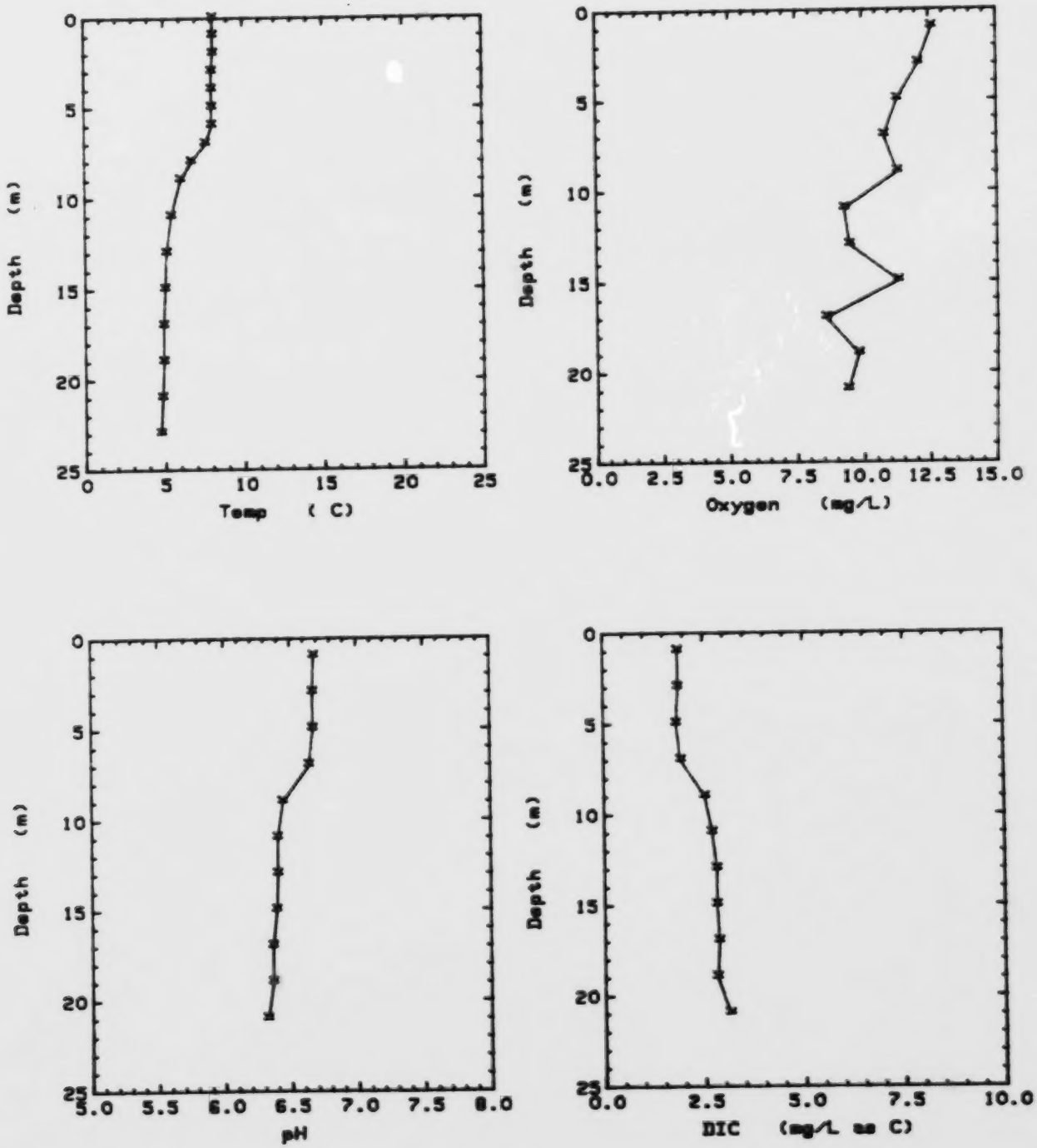

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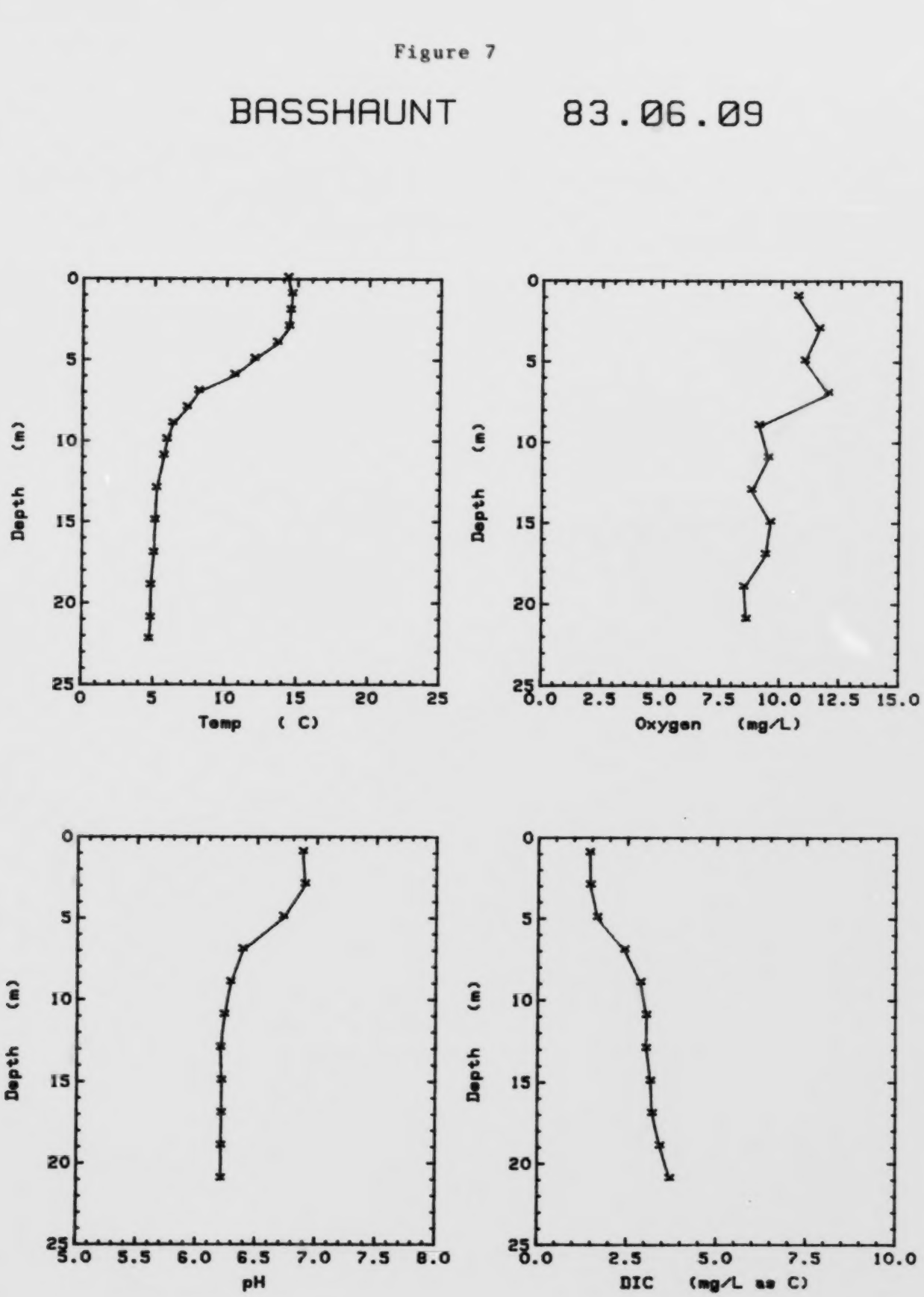

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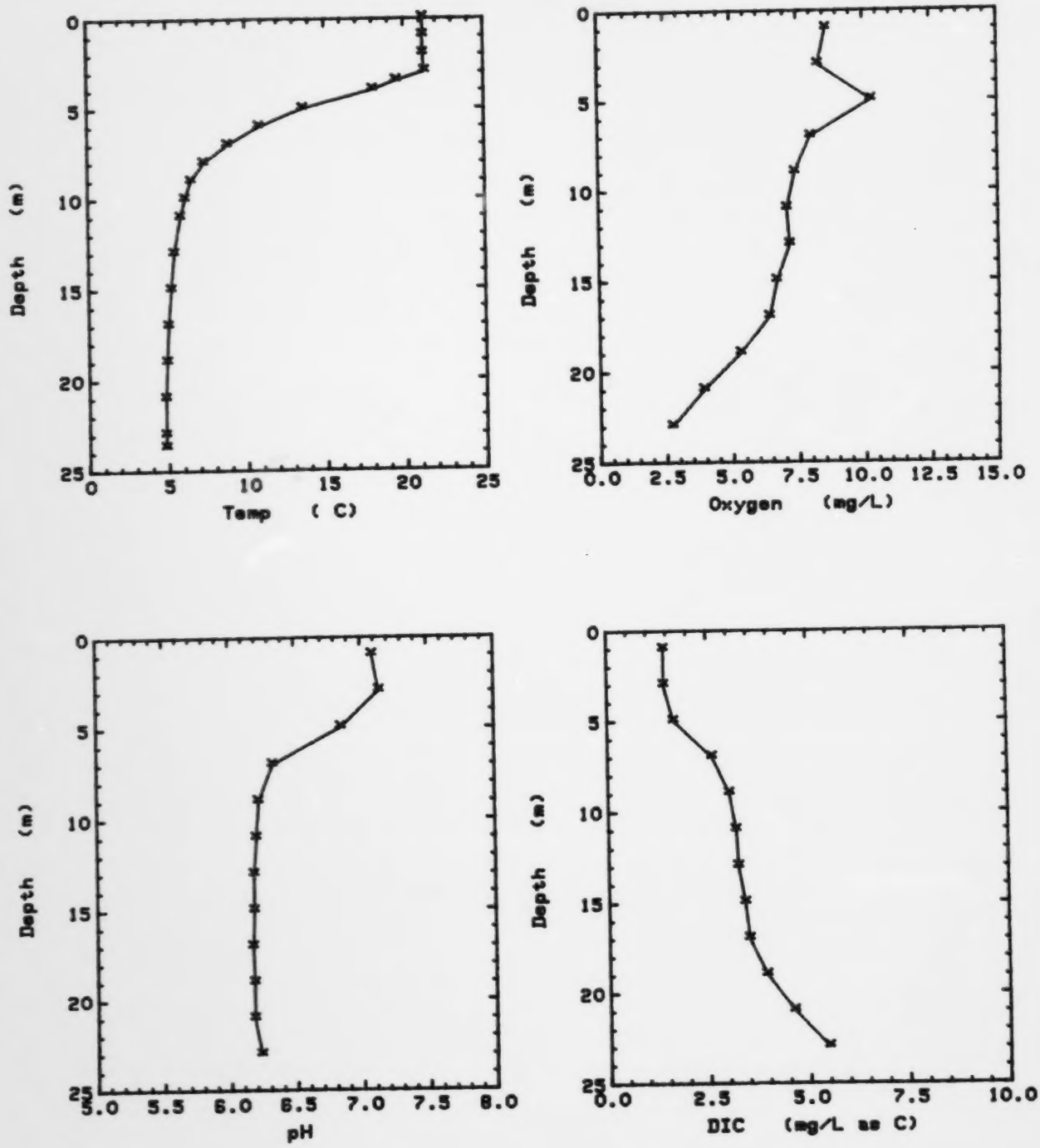

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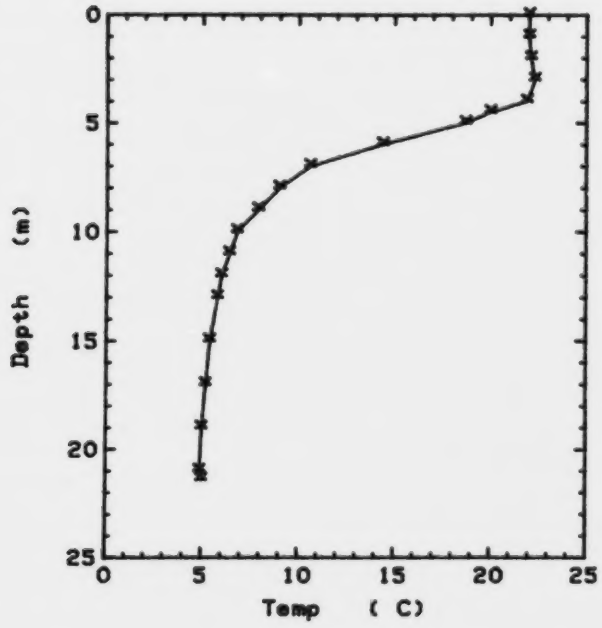

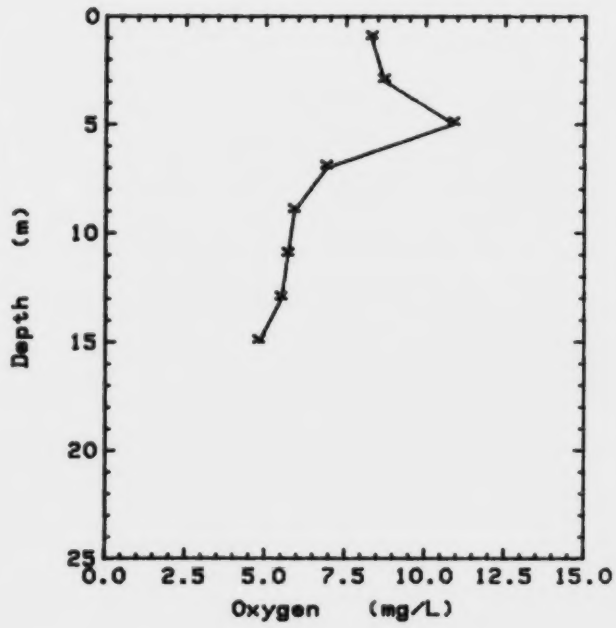

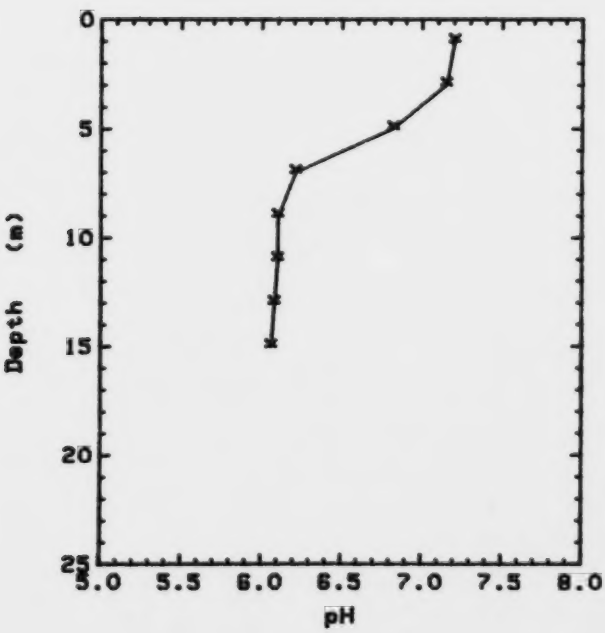

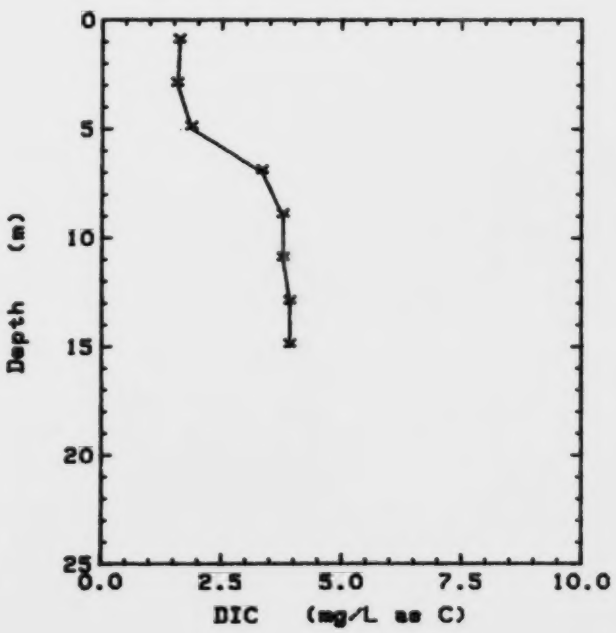

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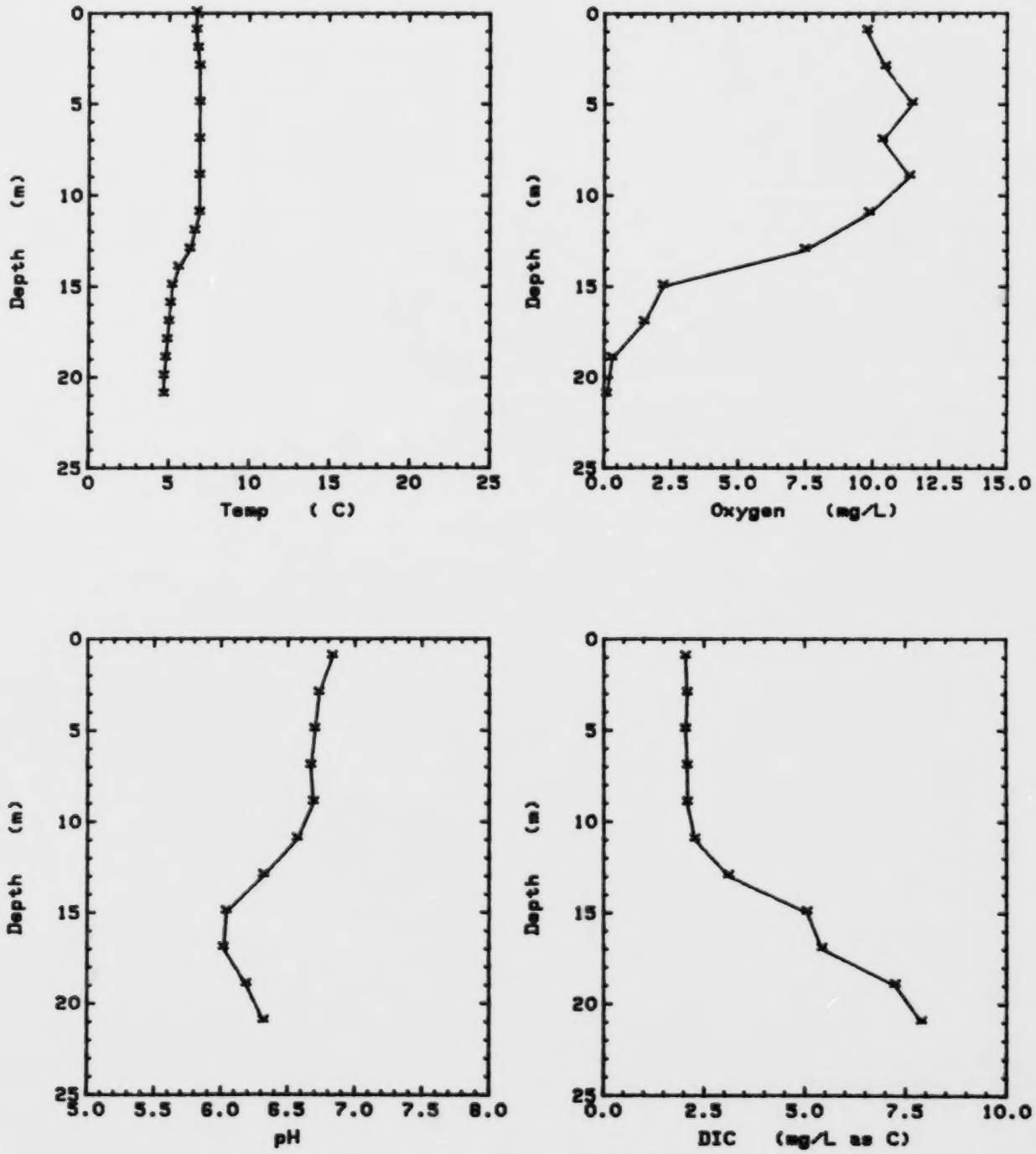

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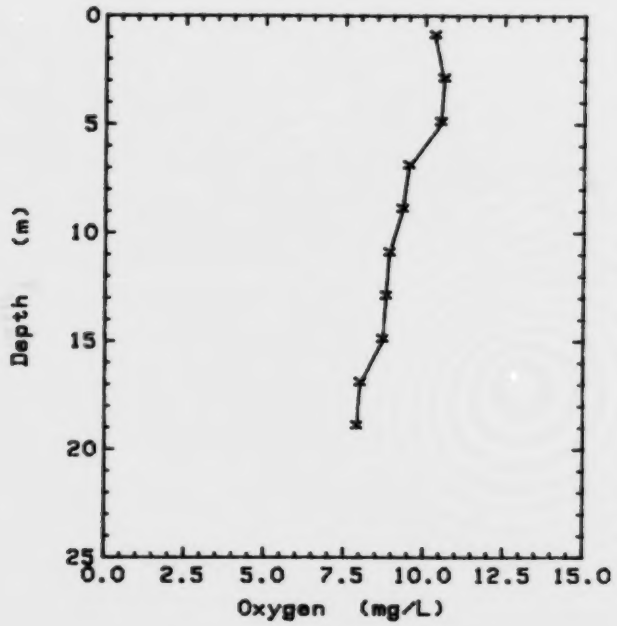

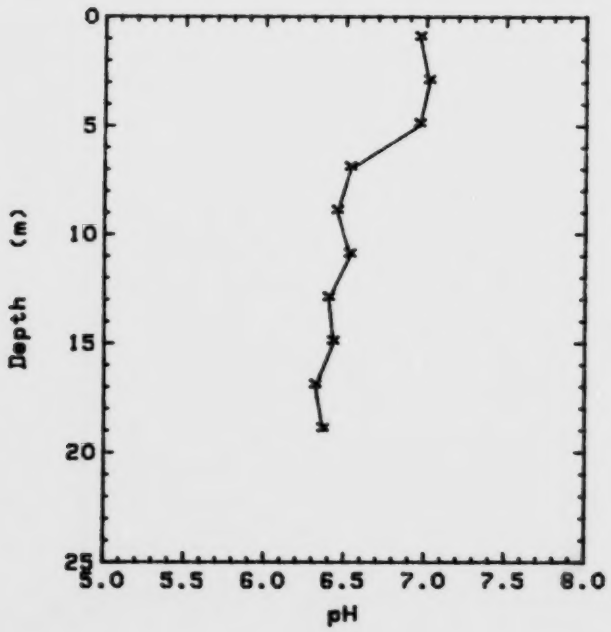

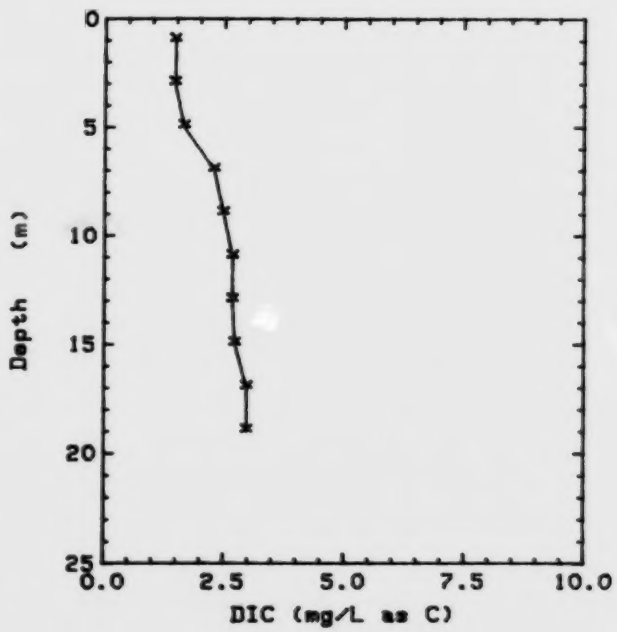

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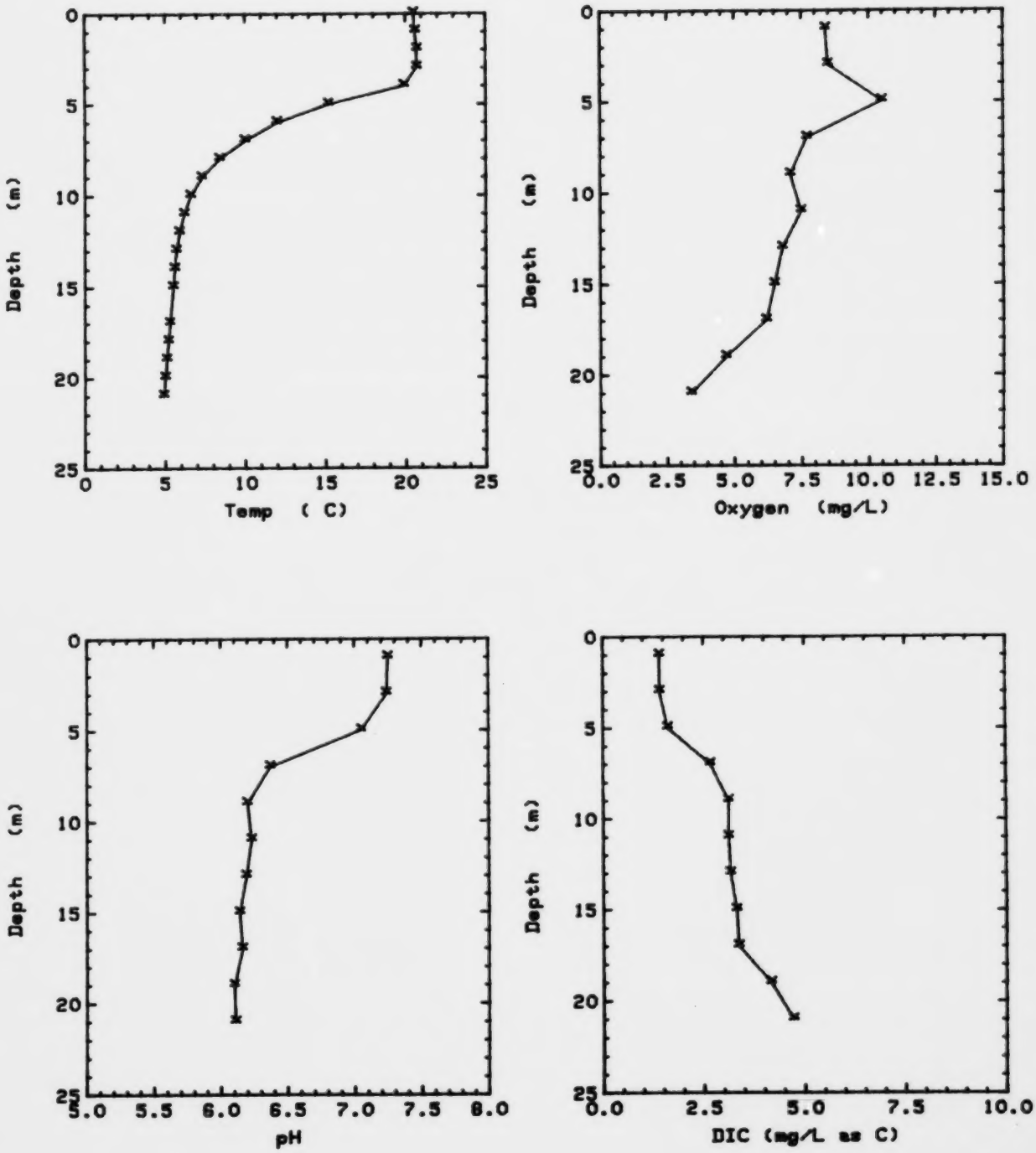

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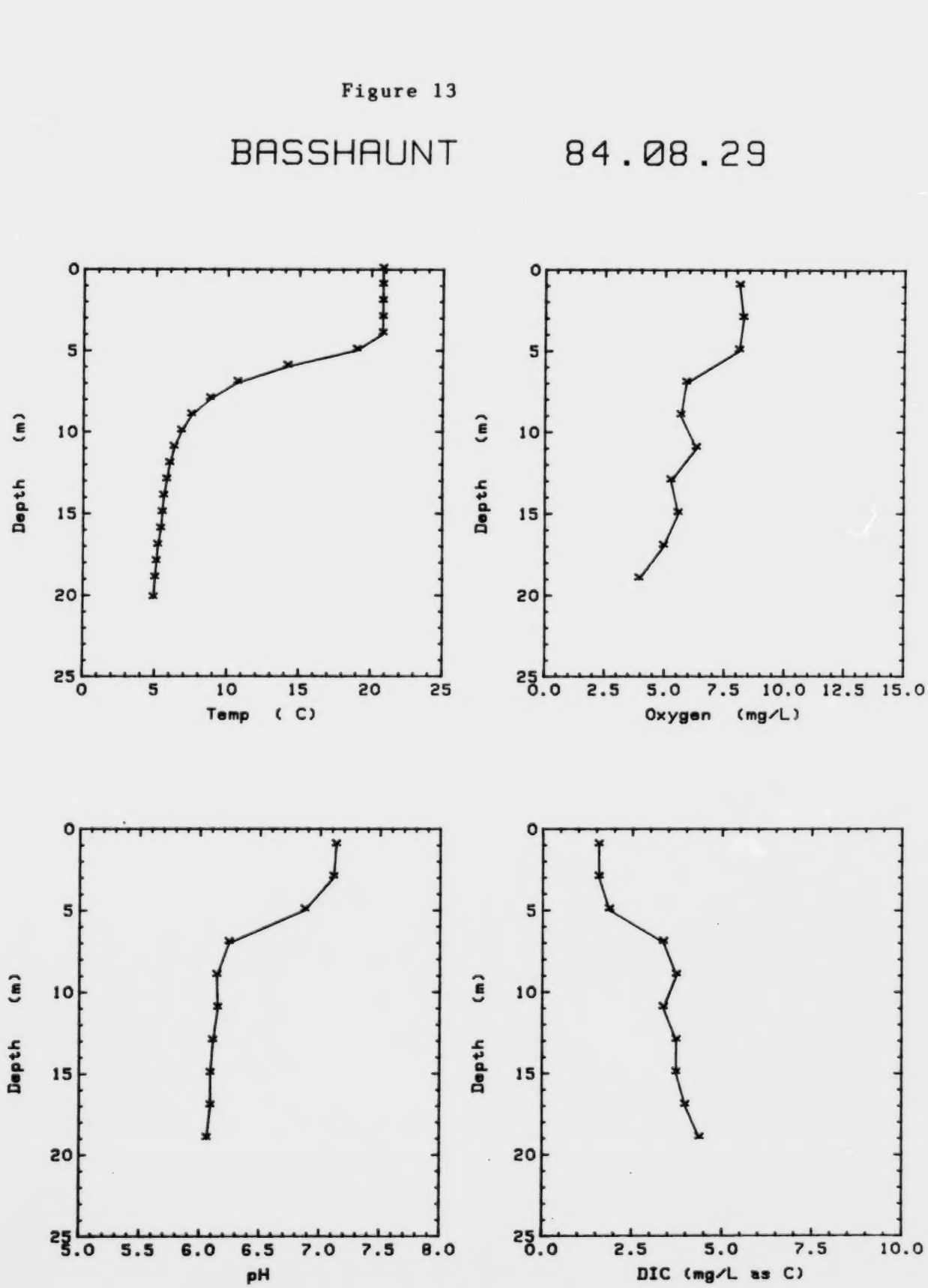

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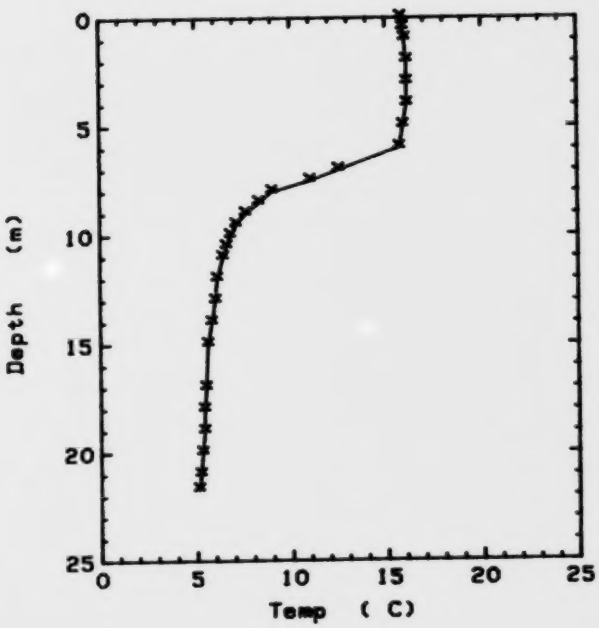

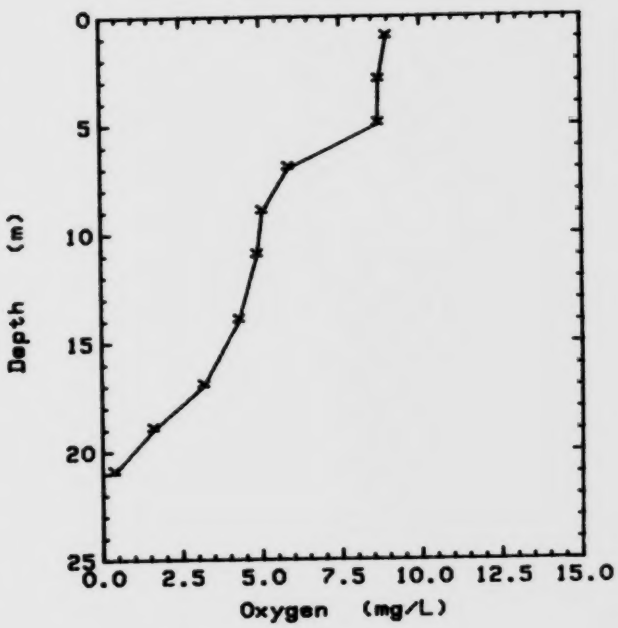

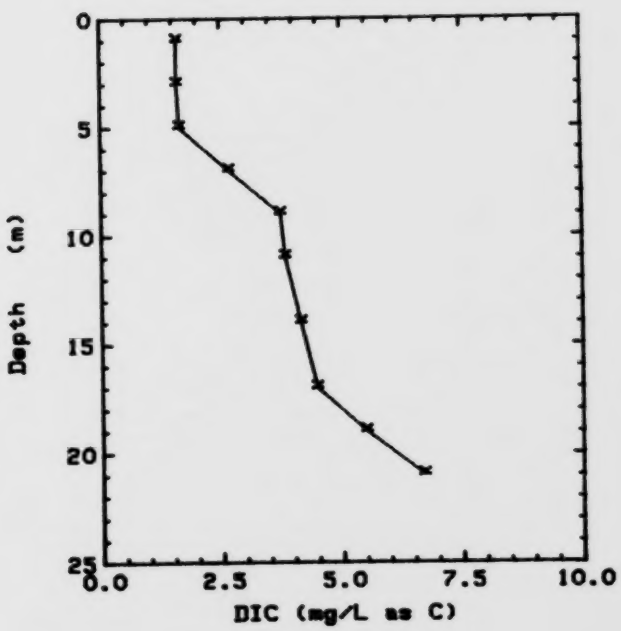

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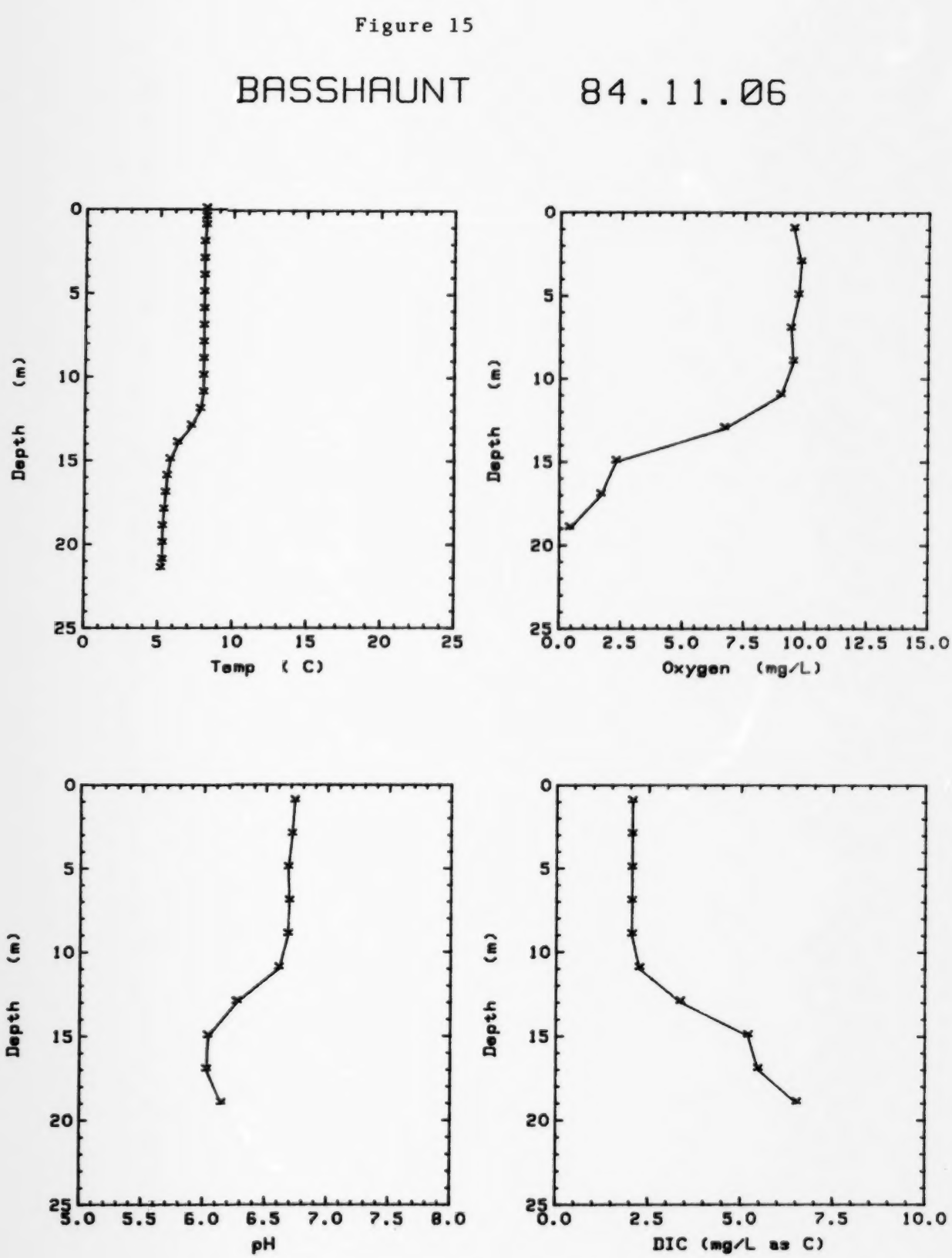

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Figure 16

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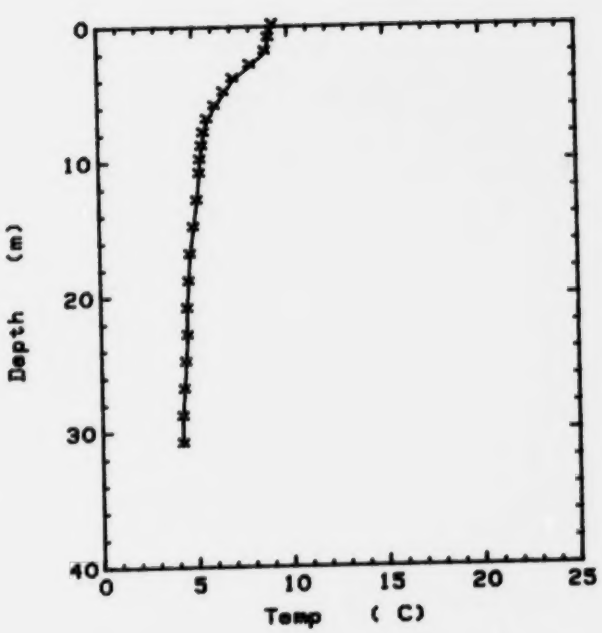

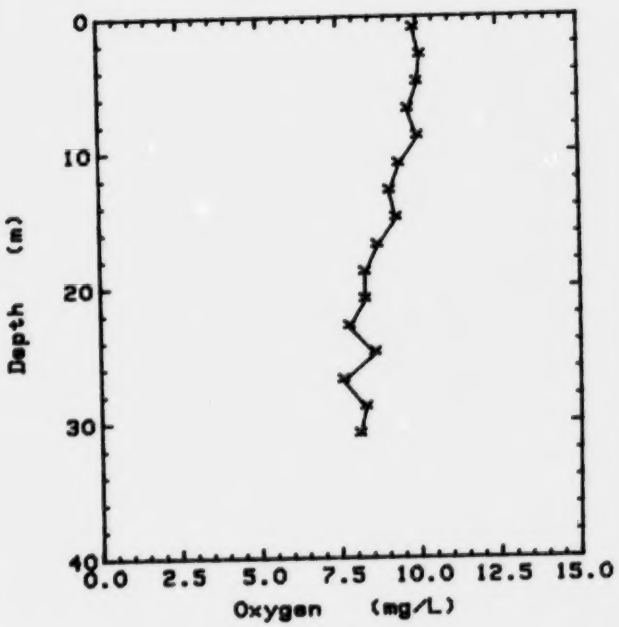

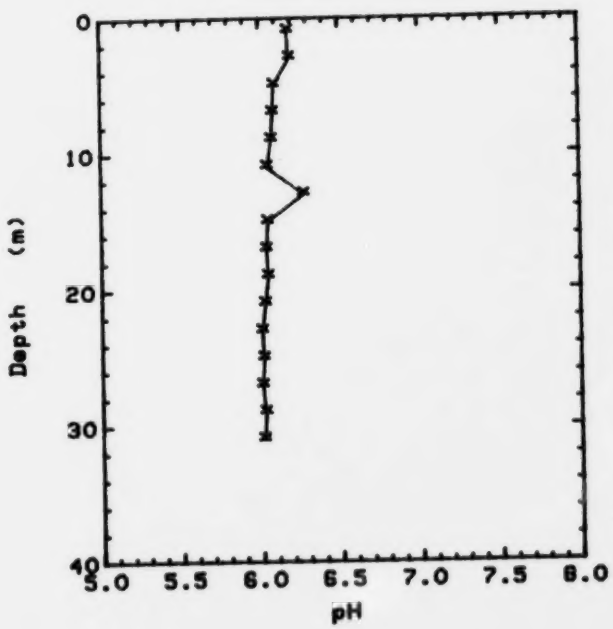

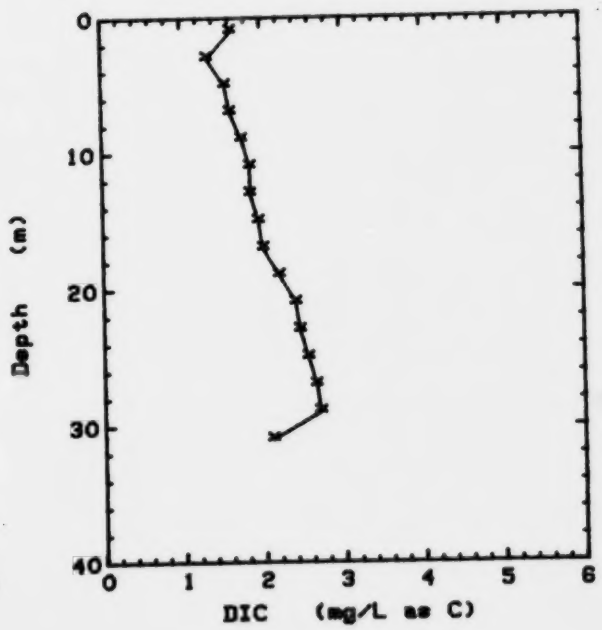

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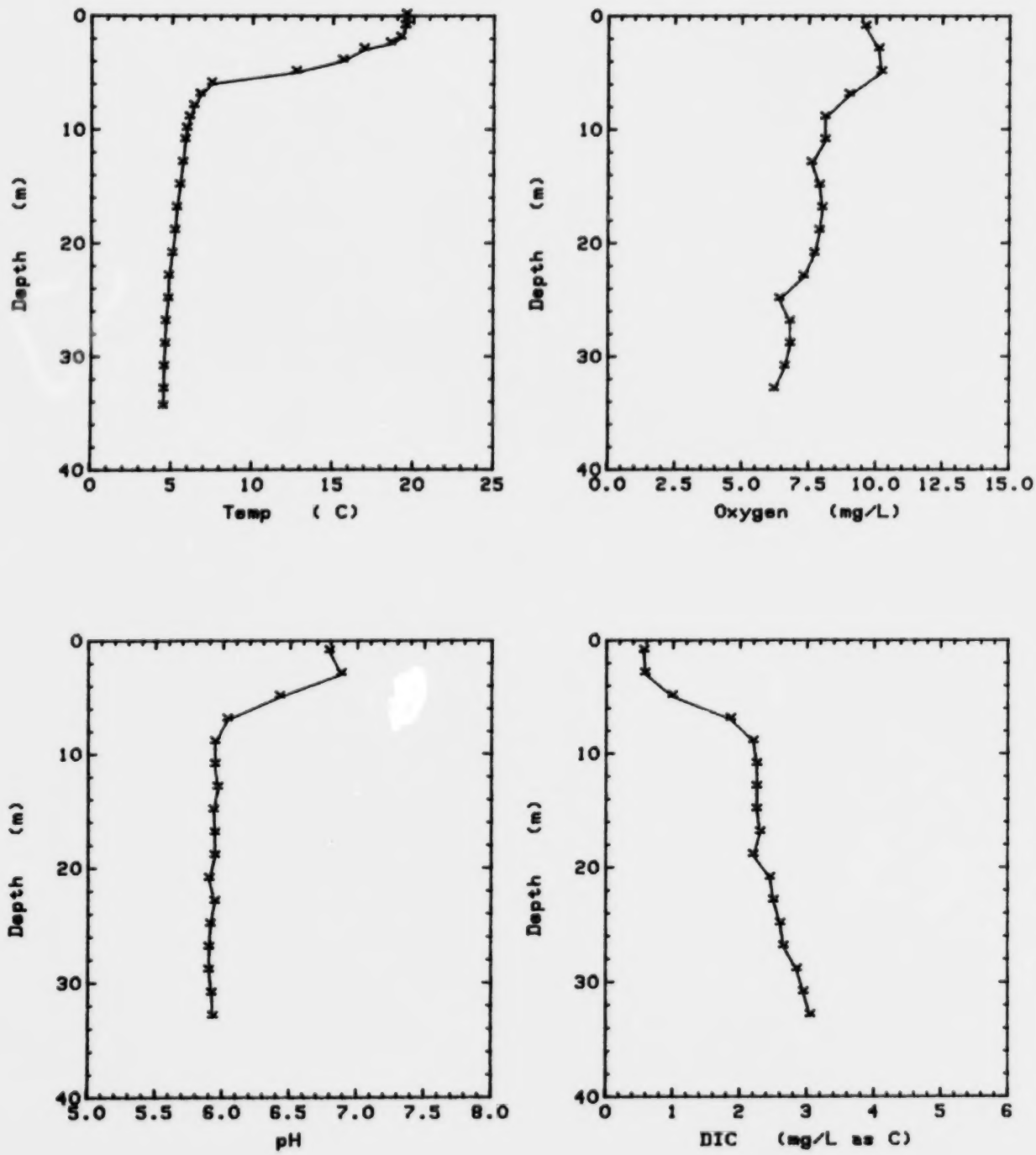

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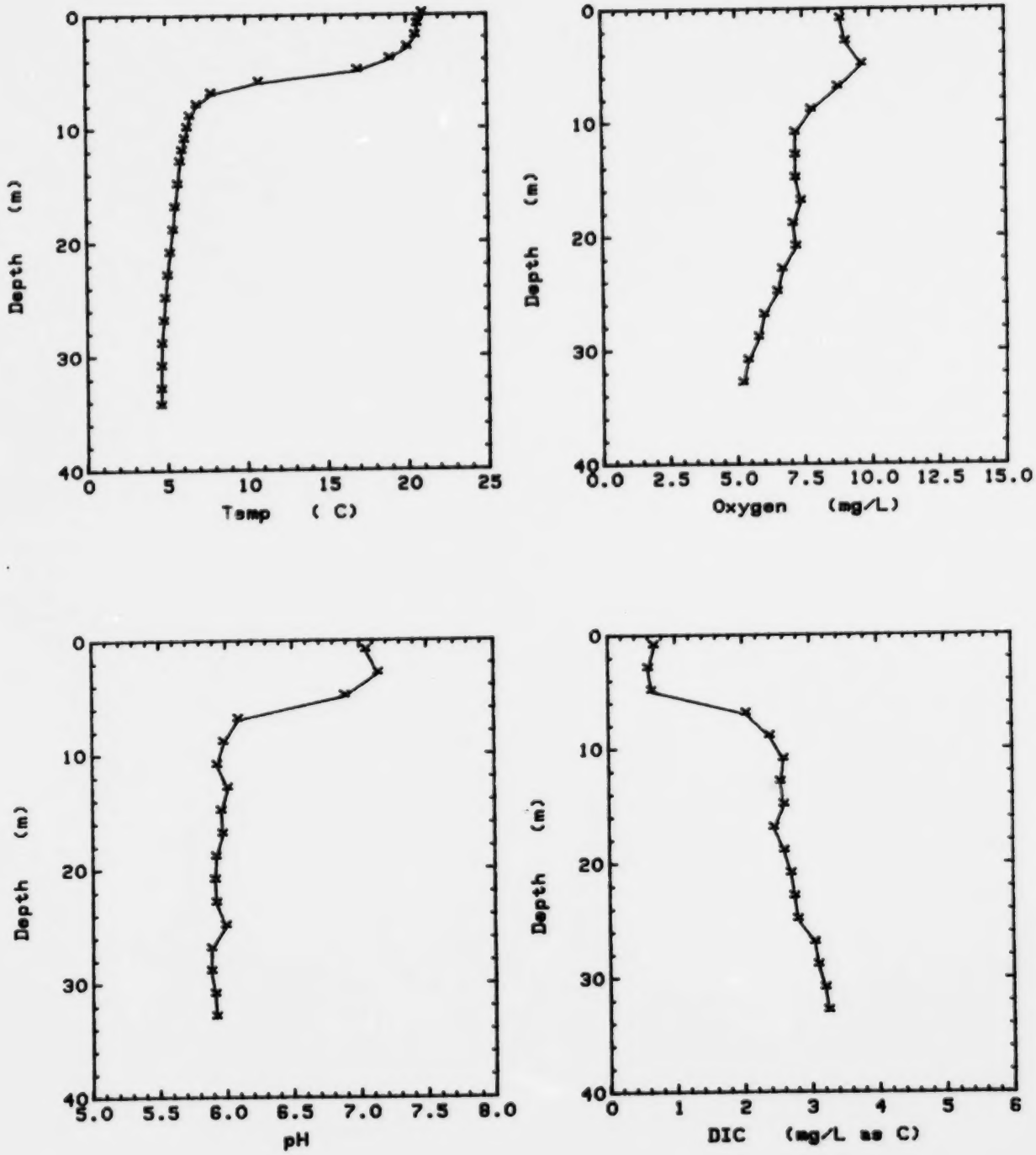

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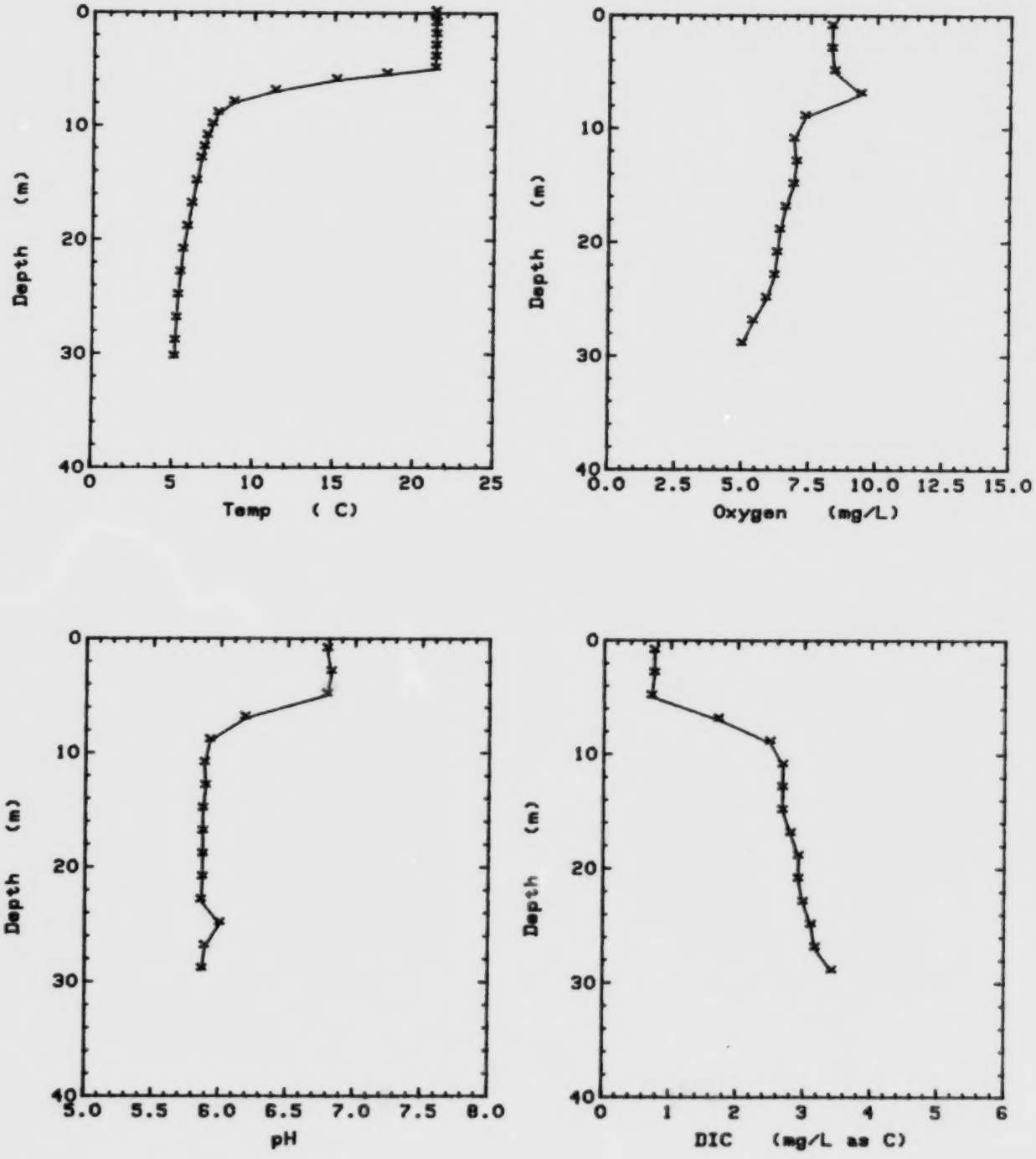

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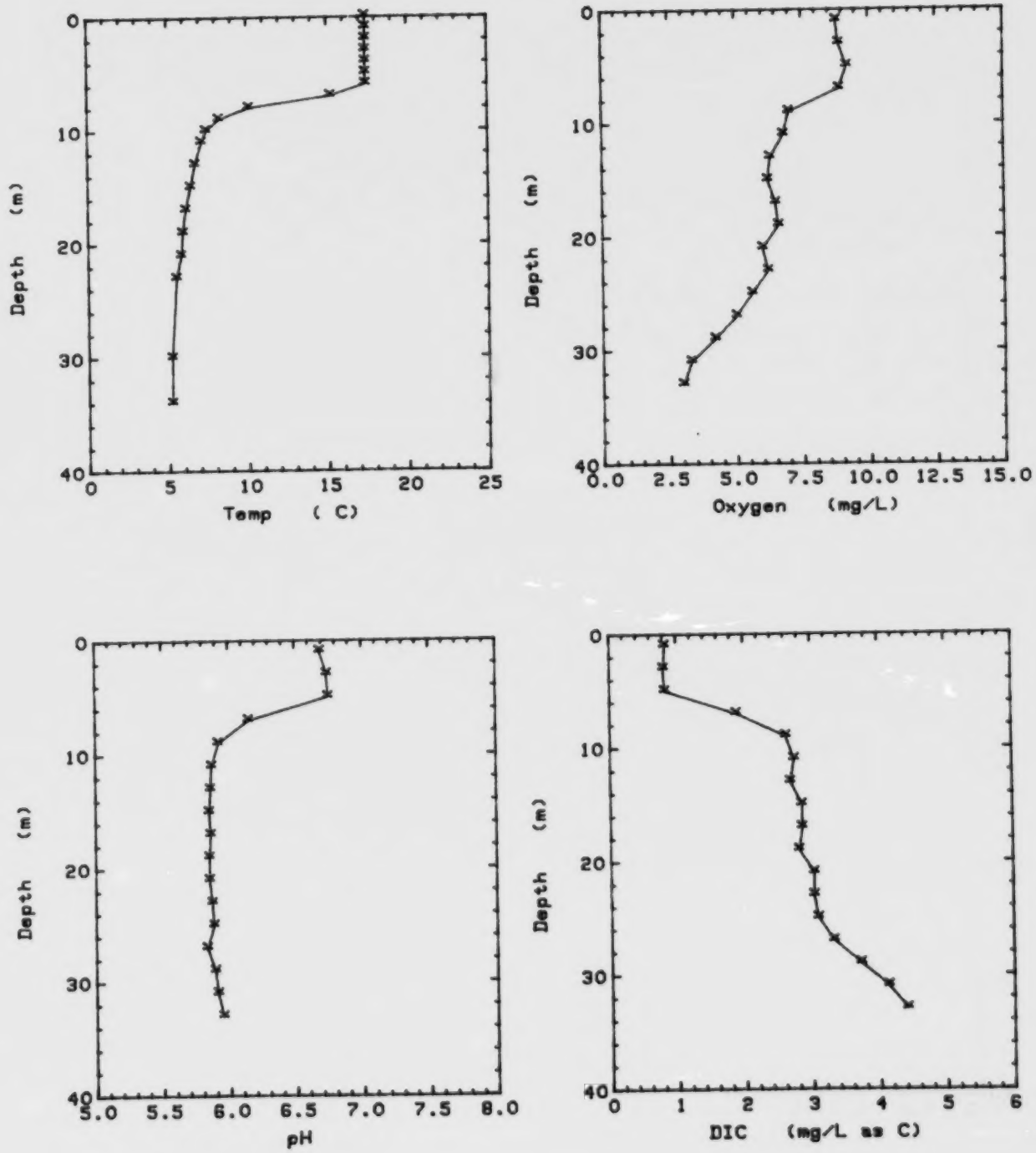

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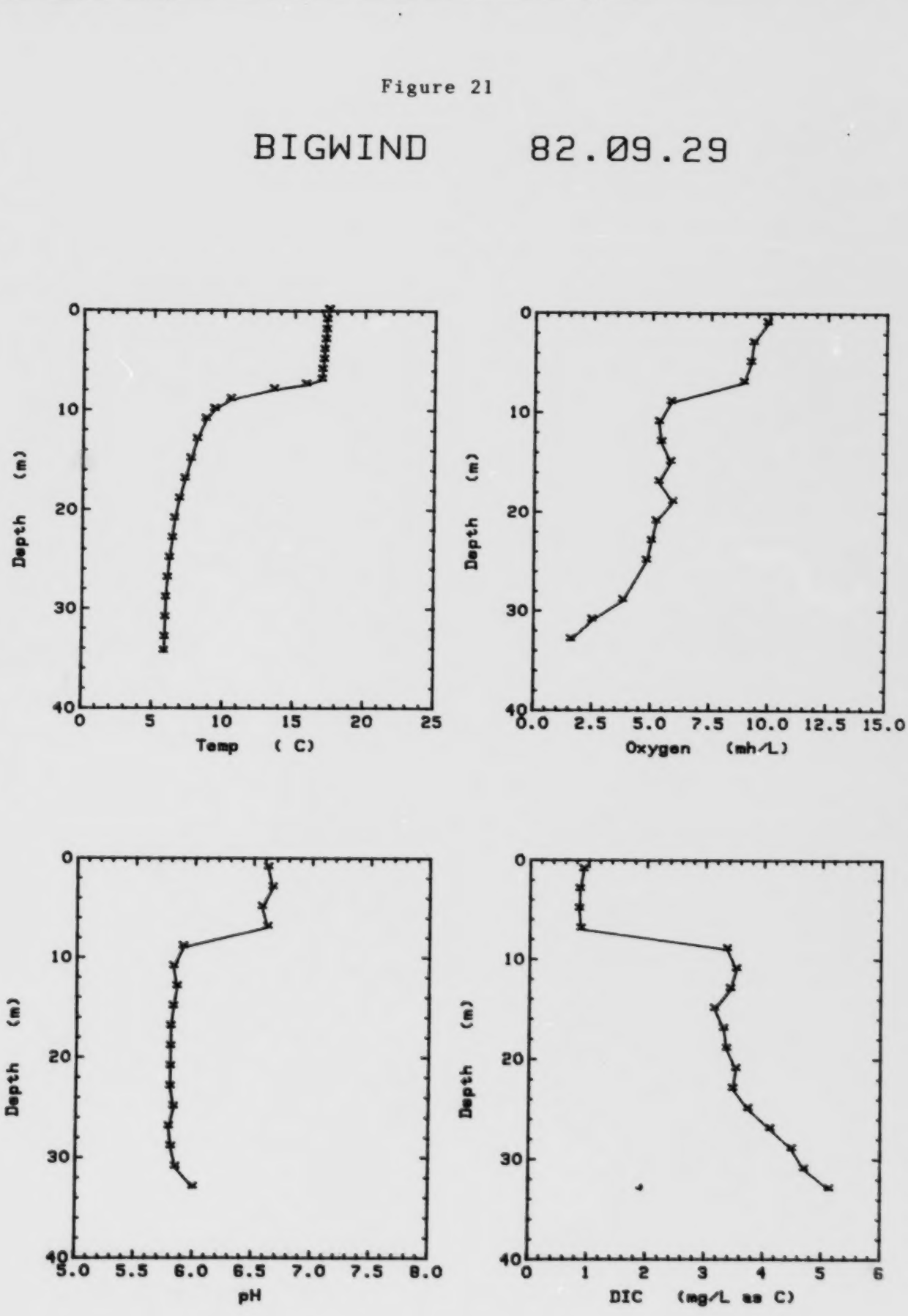

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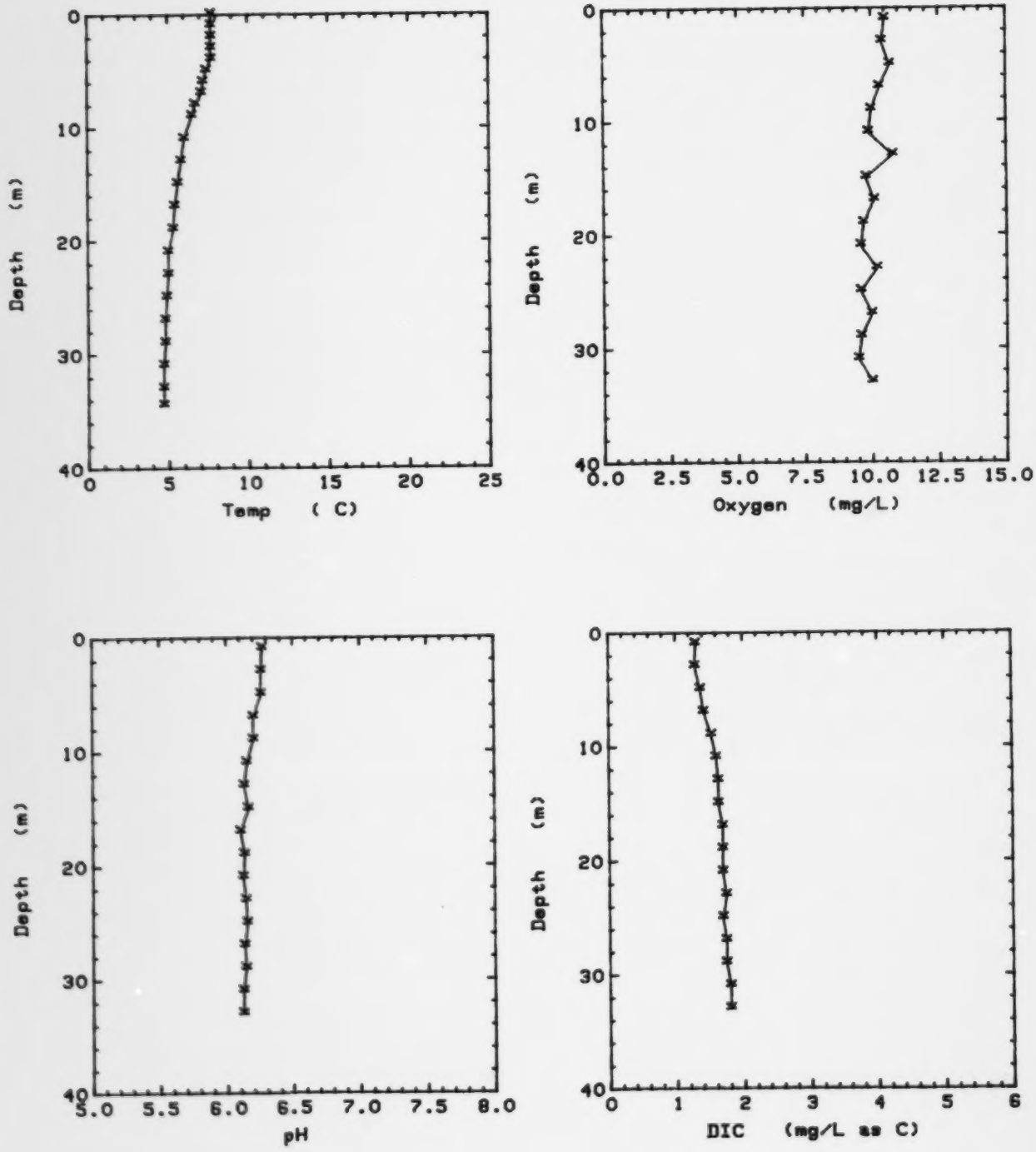

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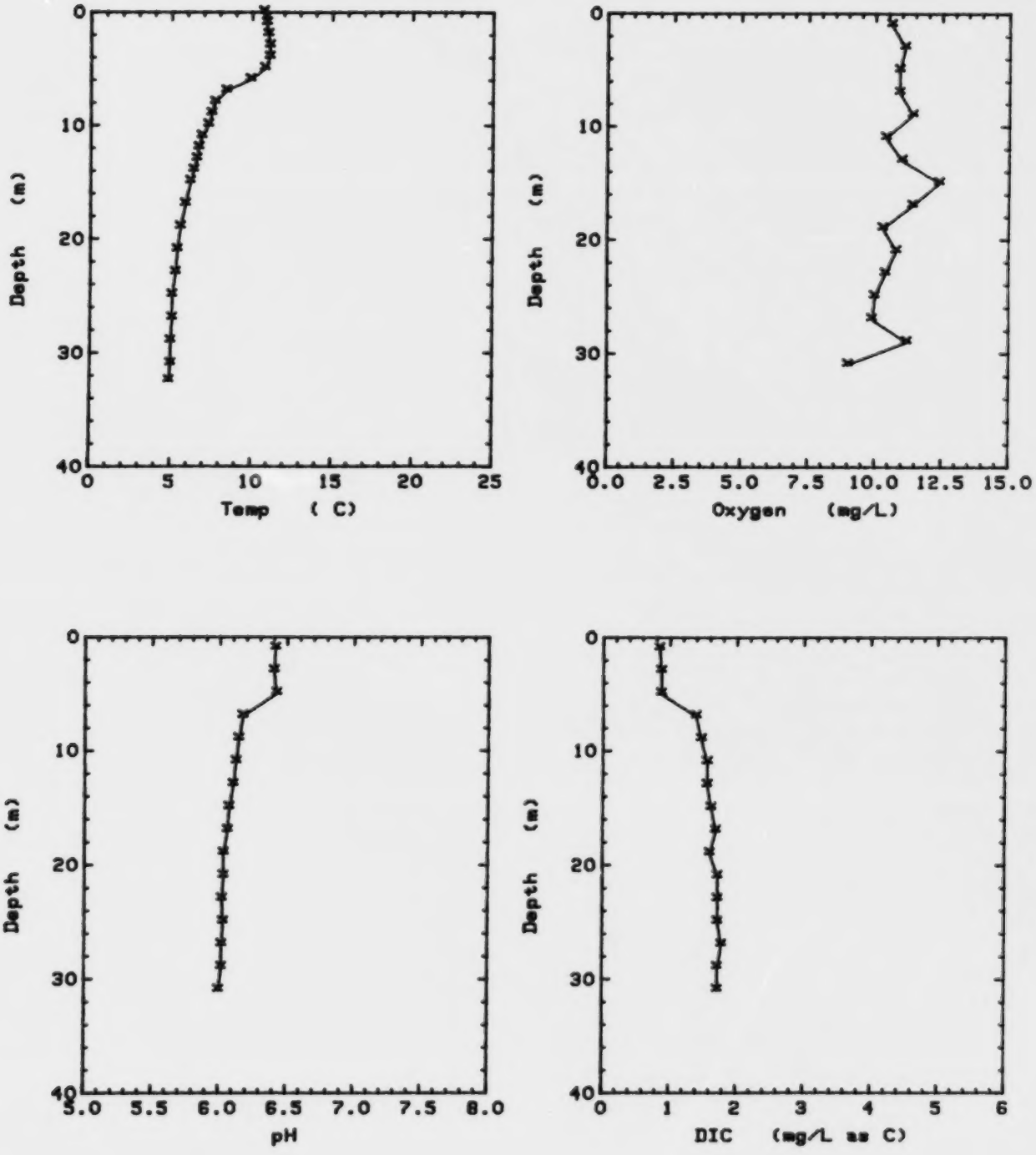

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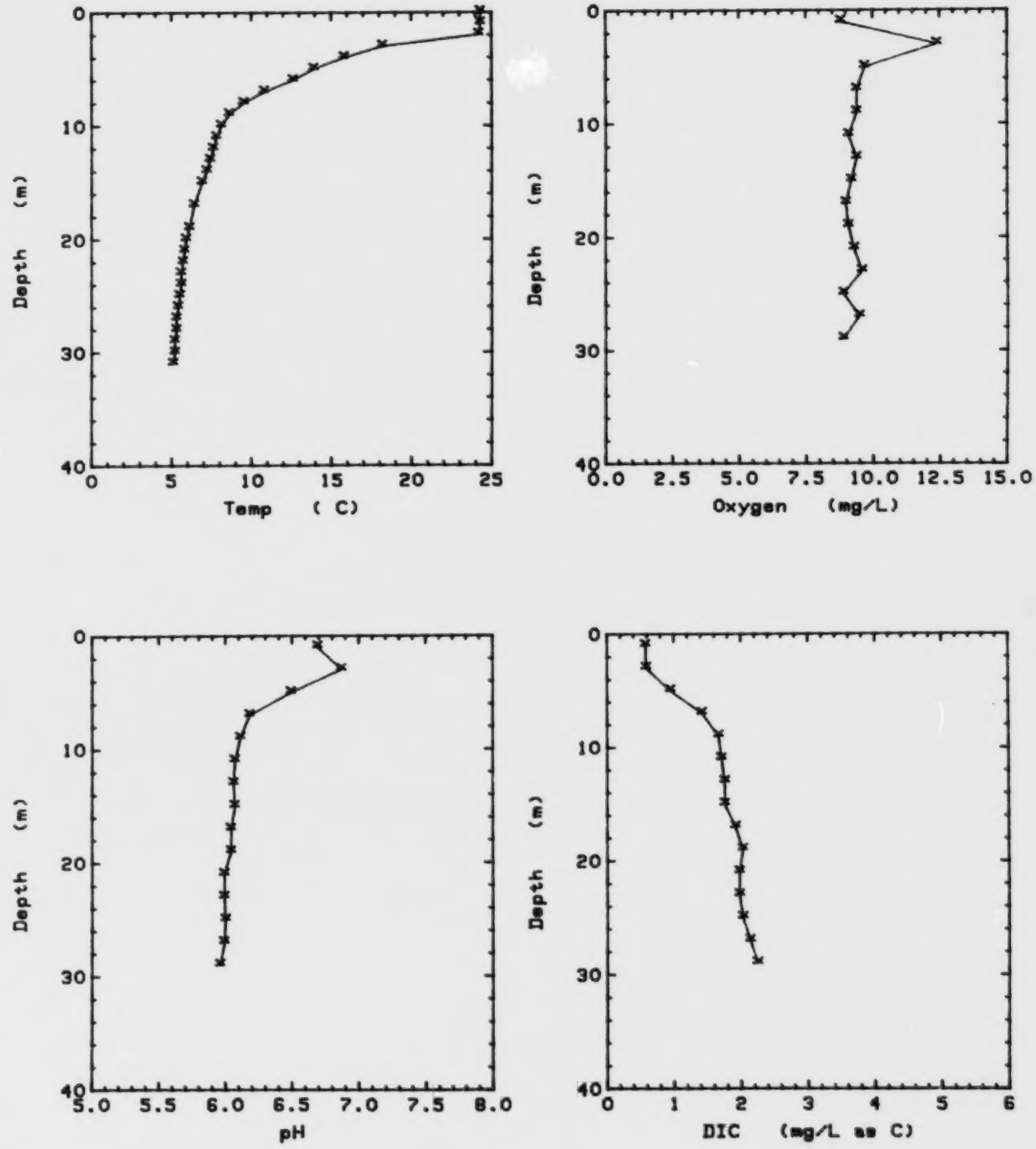

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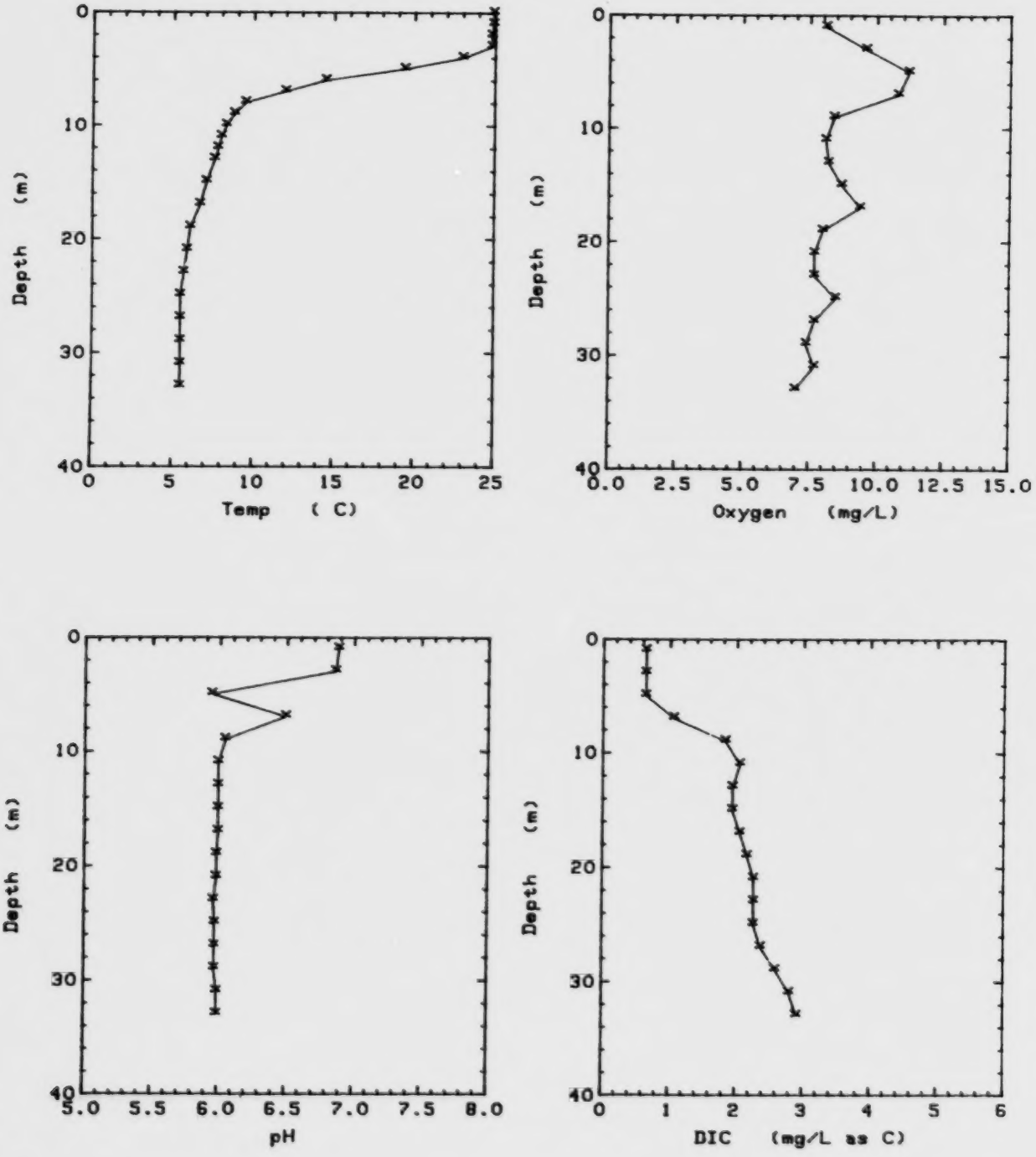

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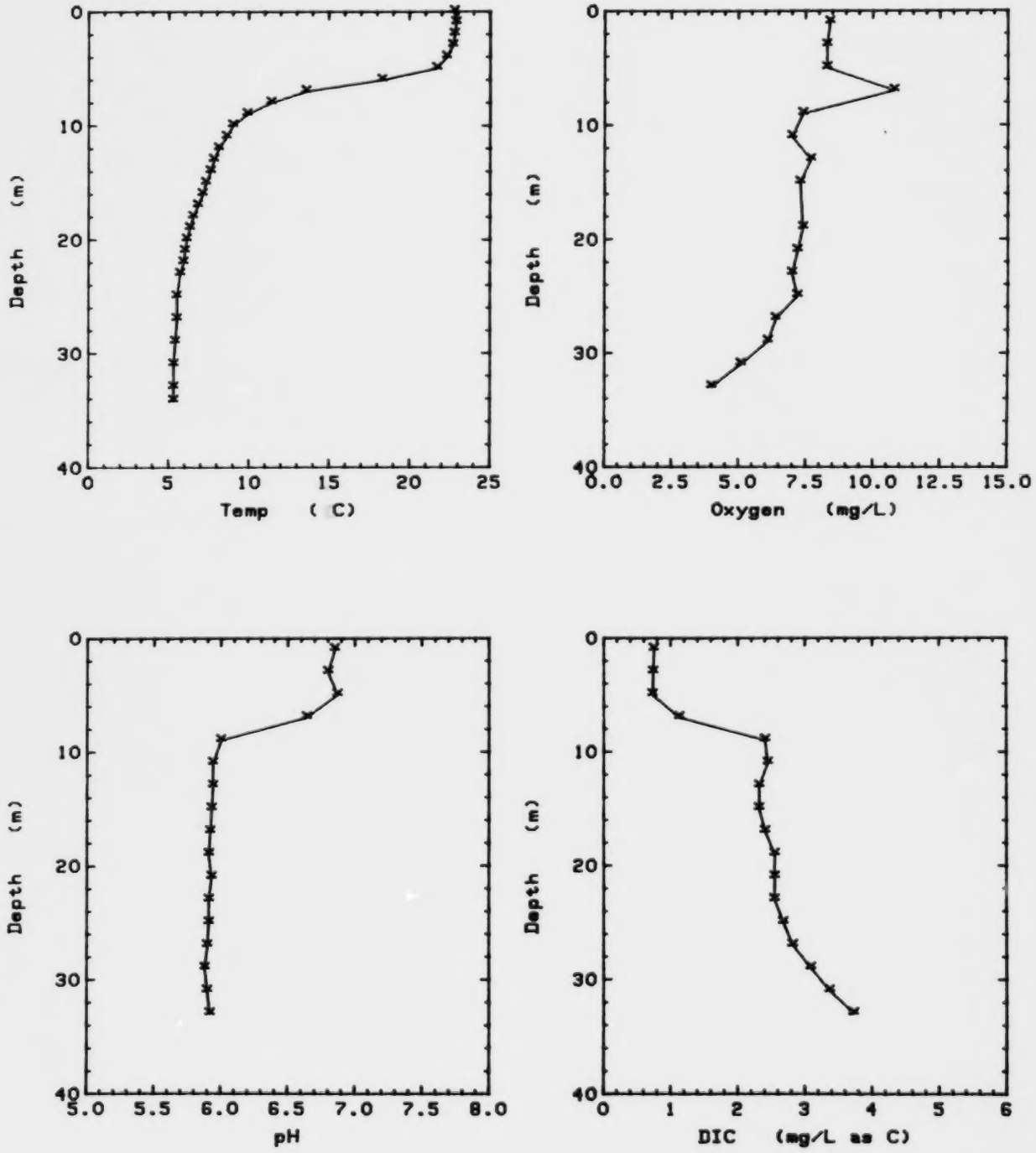

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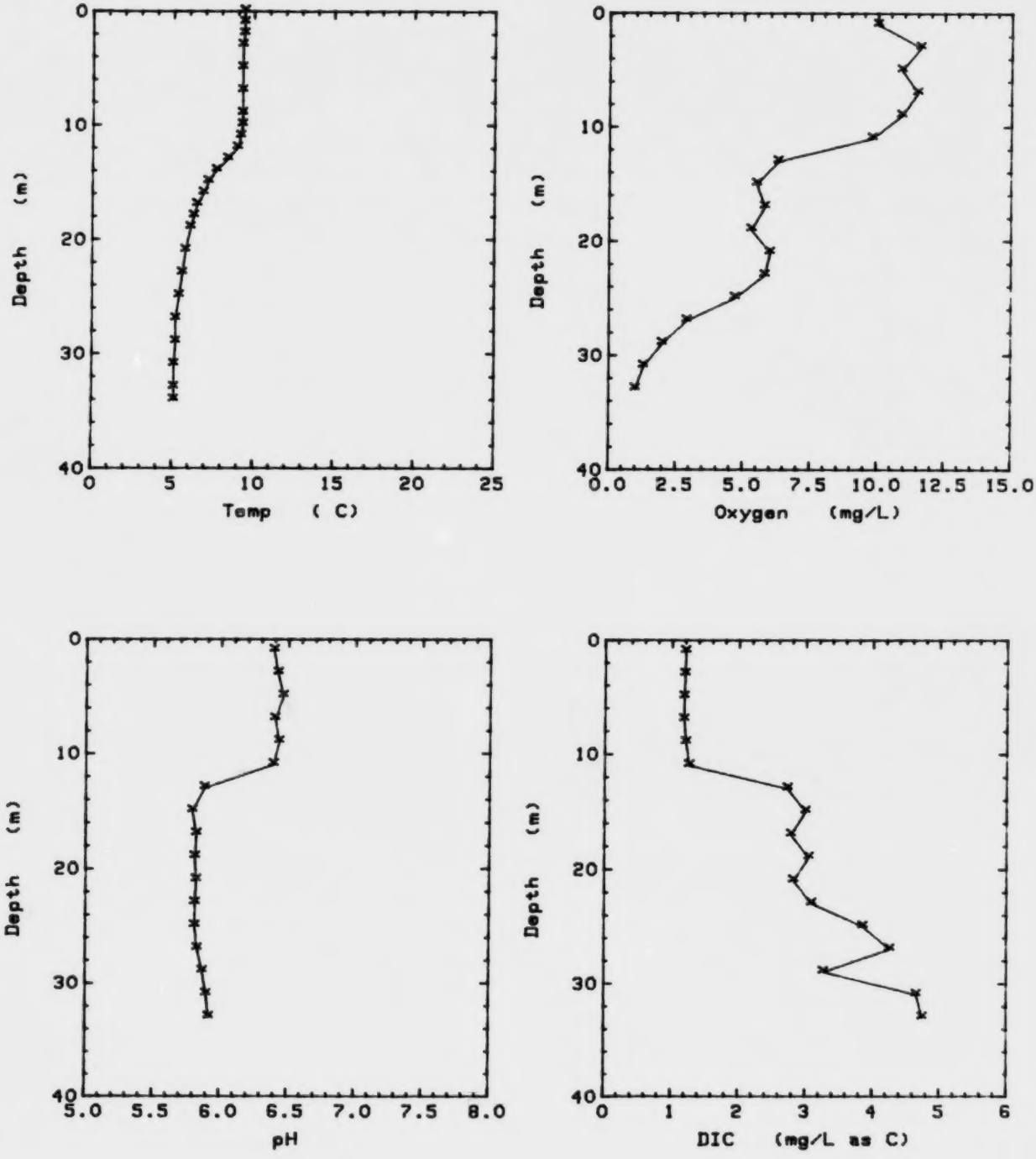

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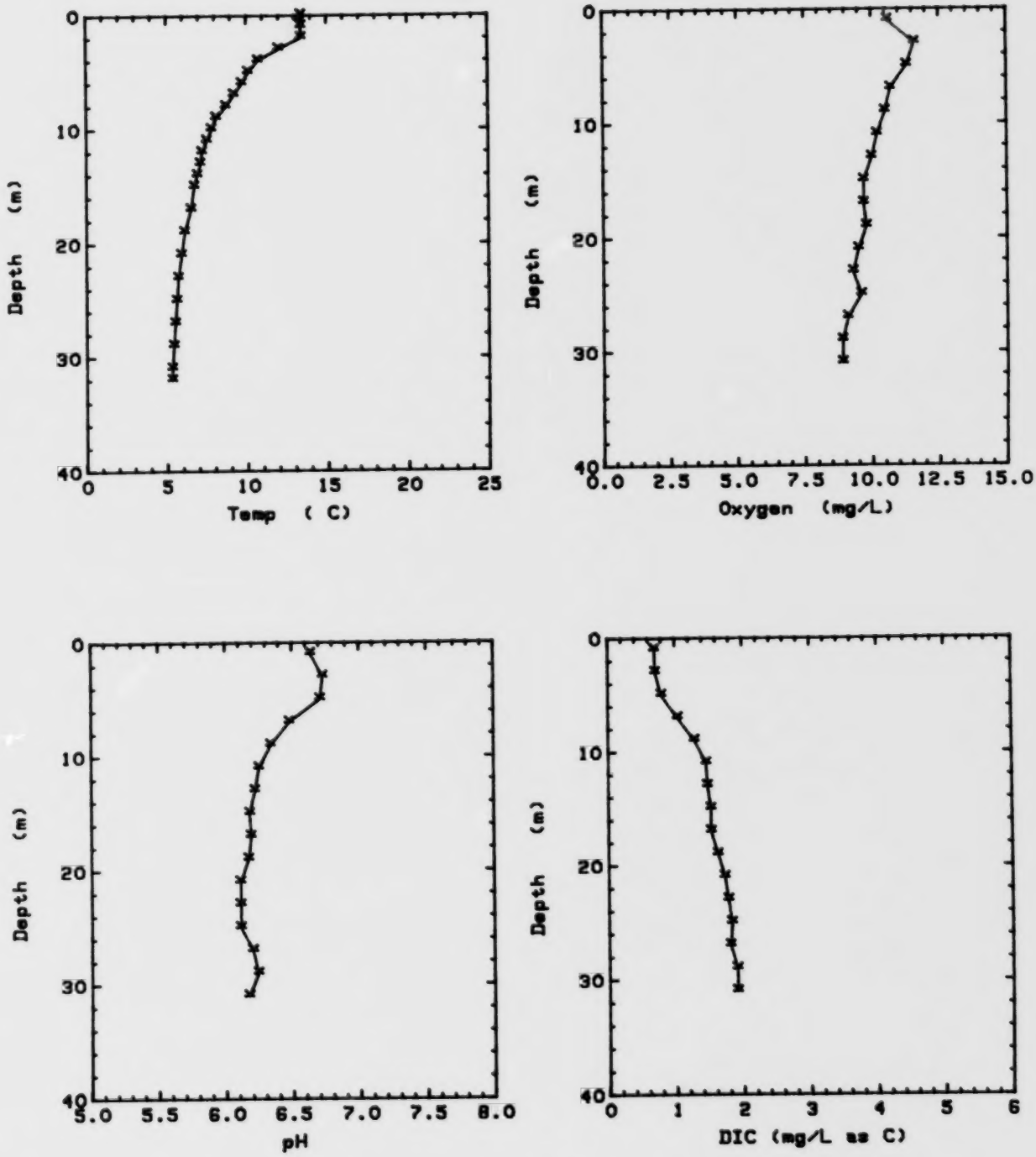

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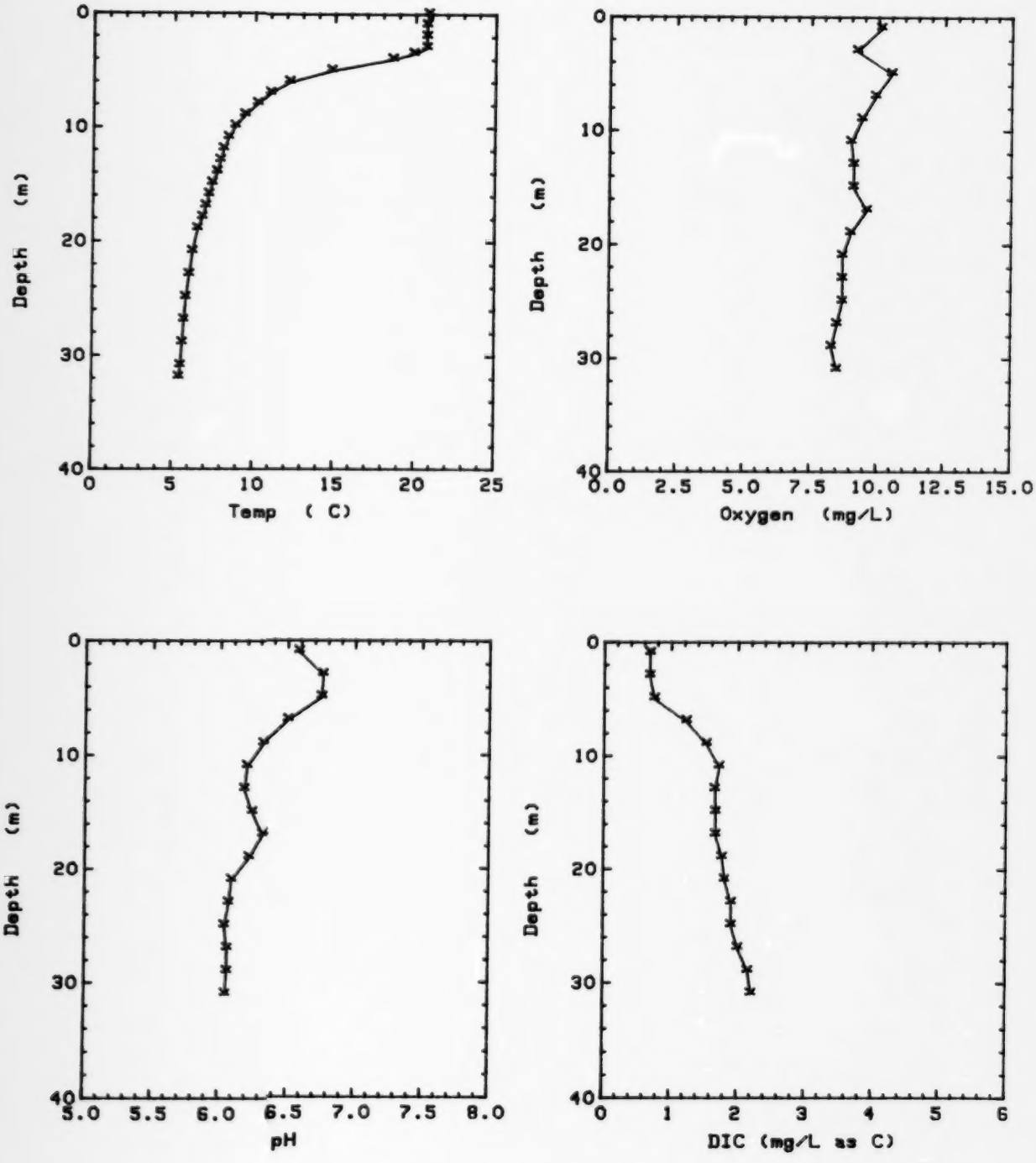

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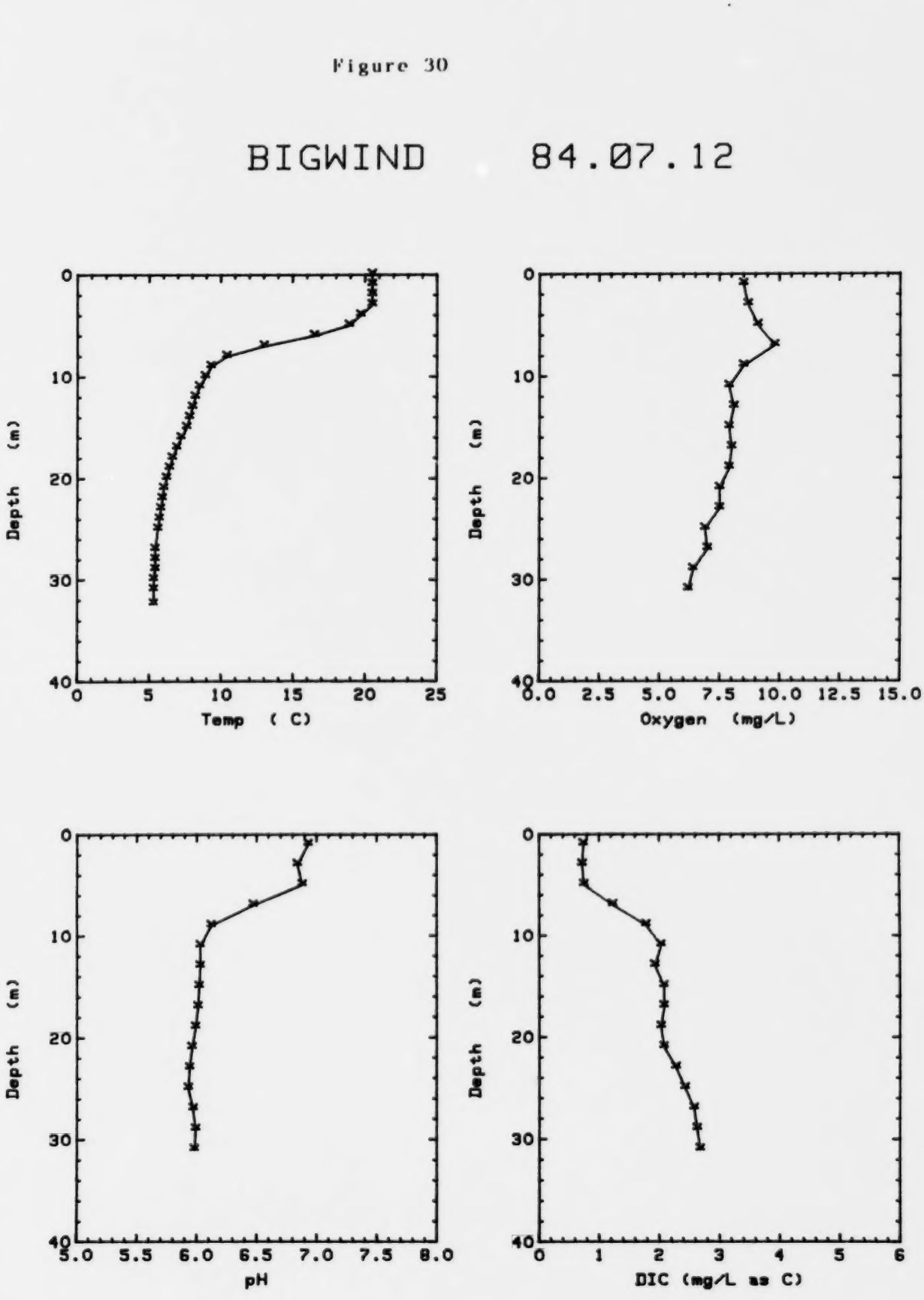

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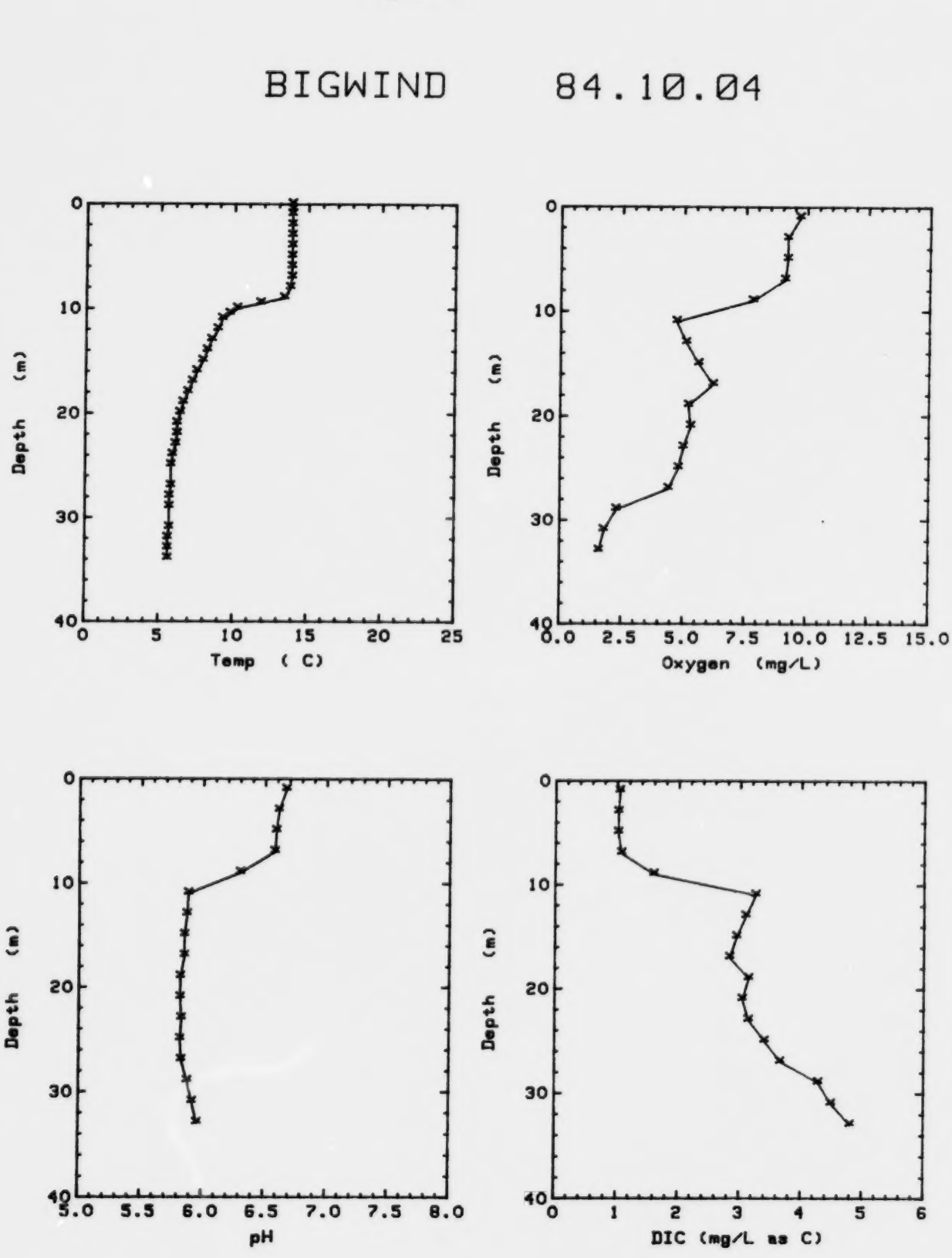

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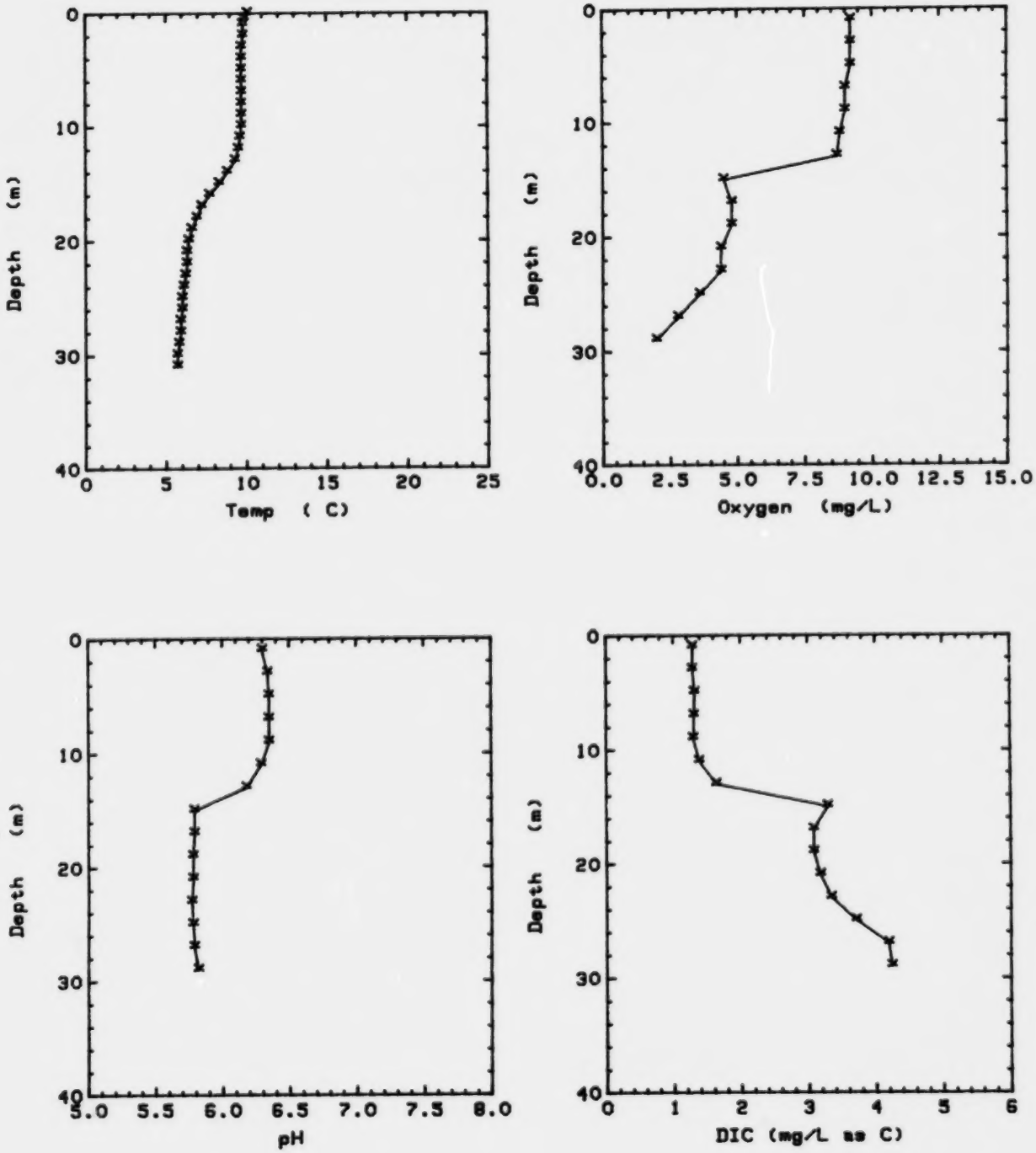

Figures 33-50 - BUCK LAKE

Figure 33

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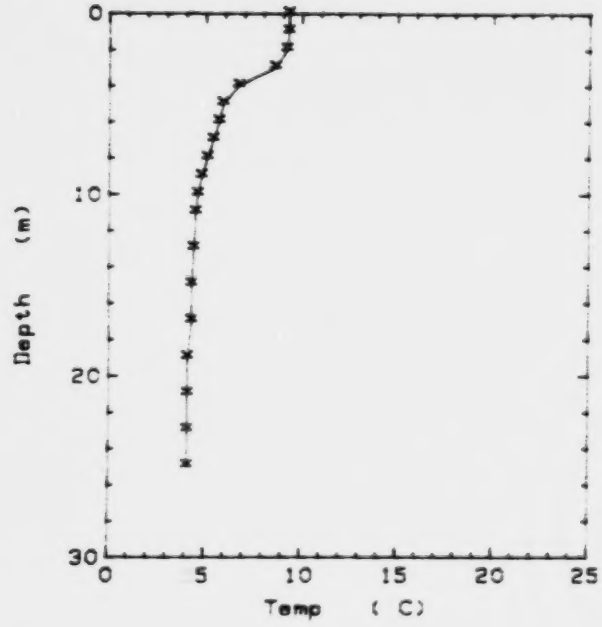

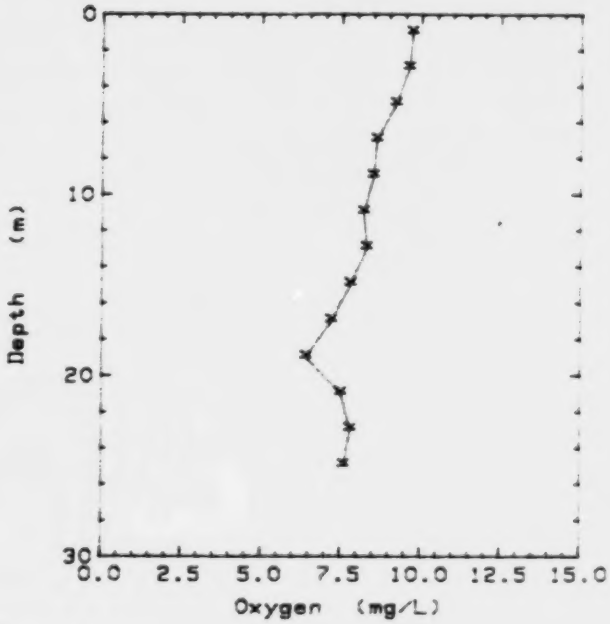

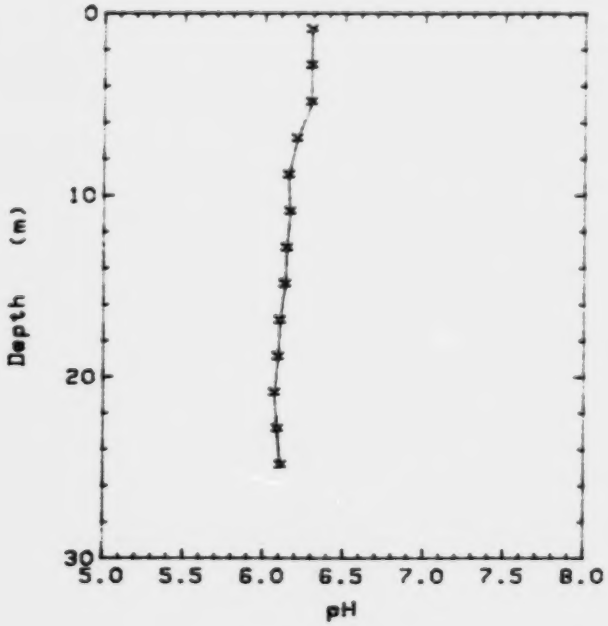

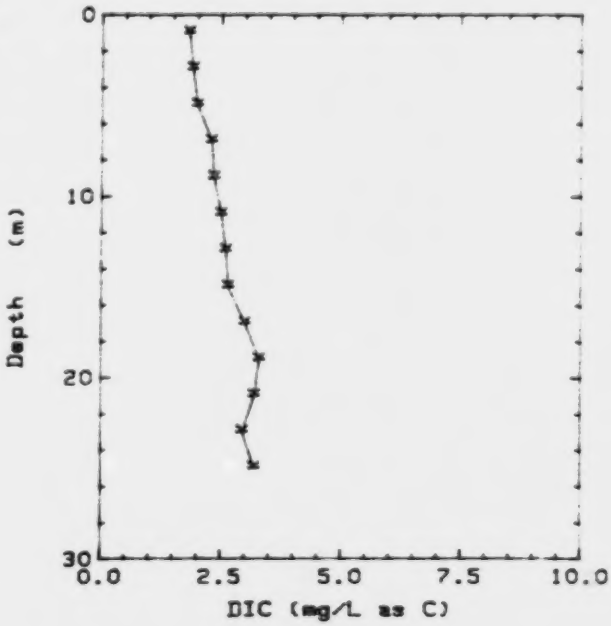

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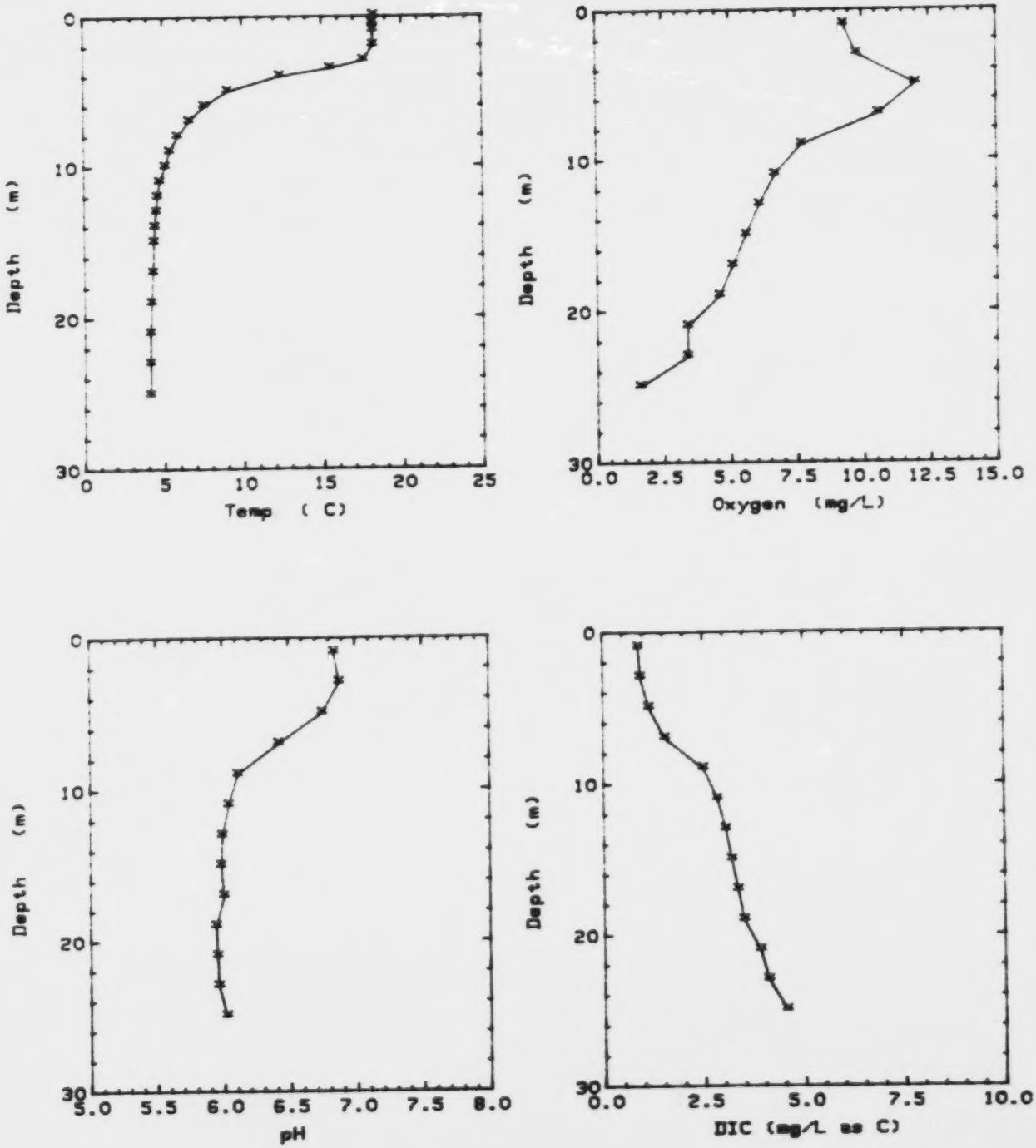

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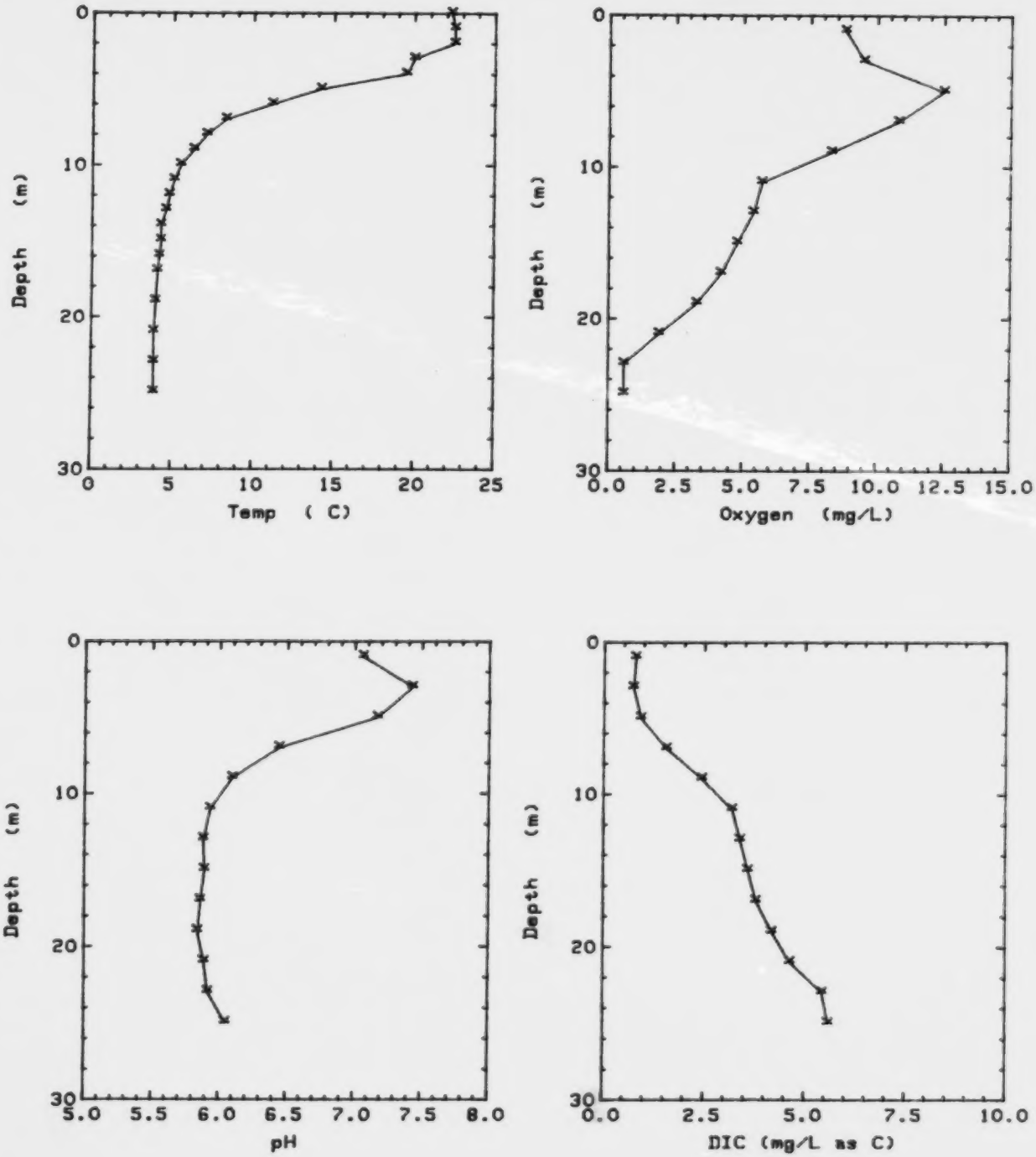
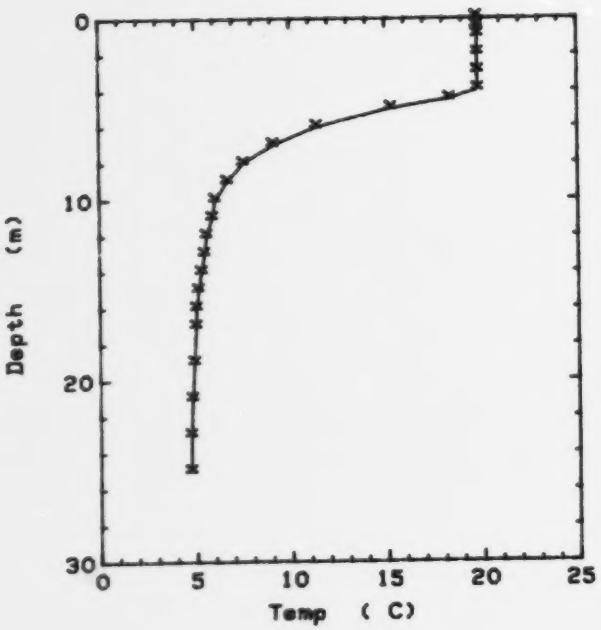
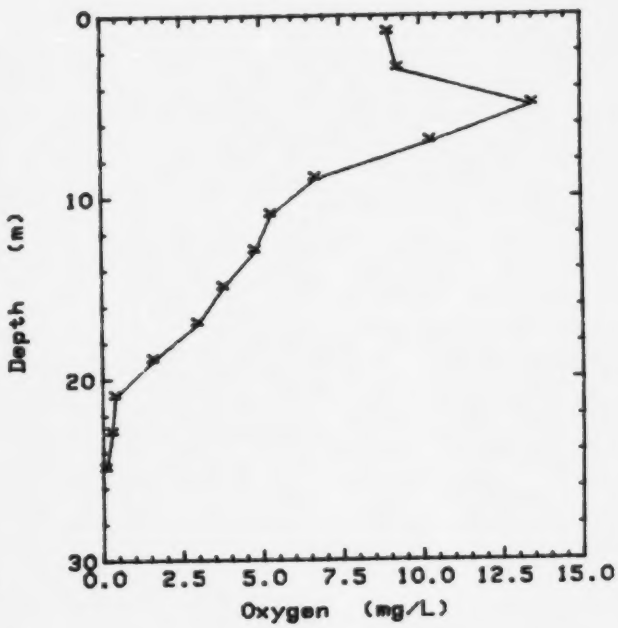
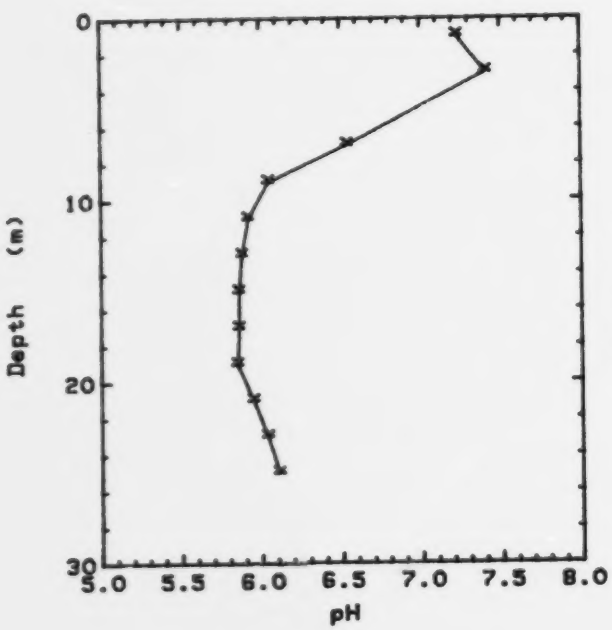


Figure 36

BUCK 82.08.12







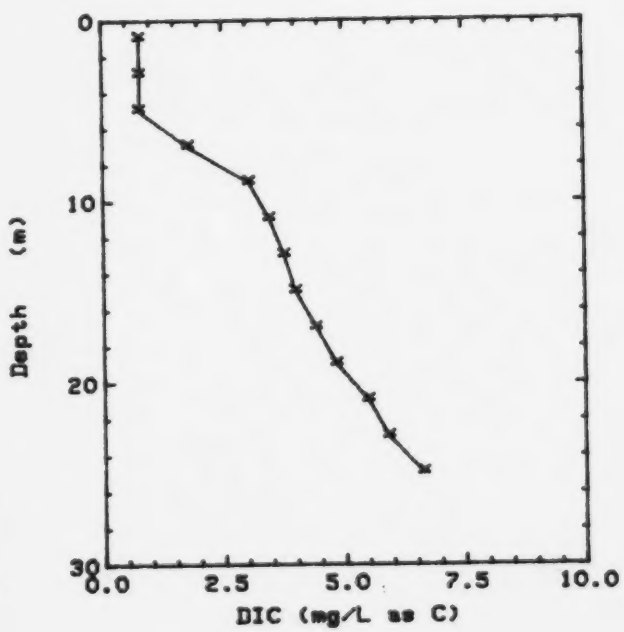


Figure 37

BUCK 82.08.30

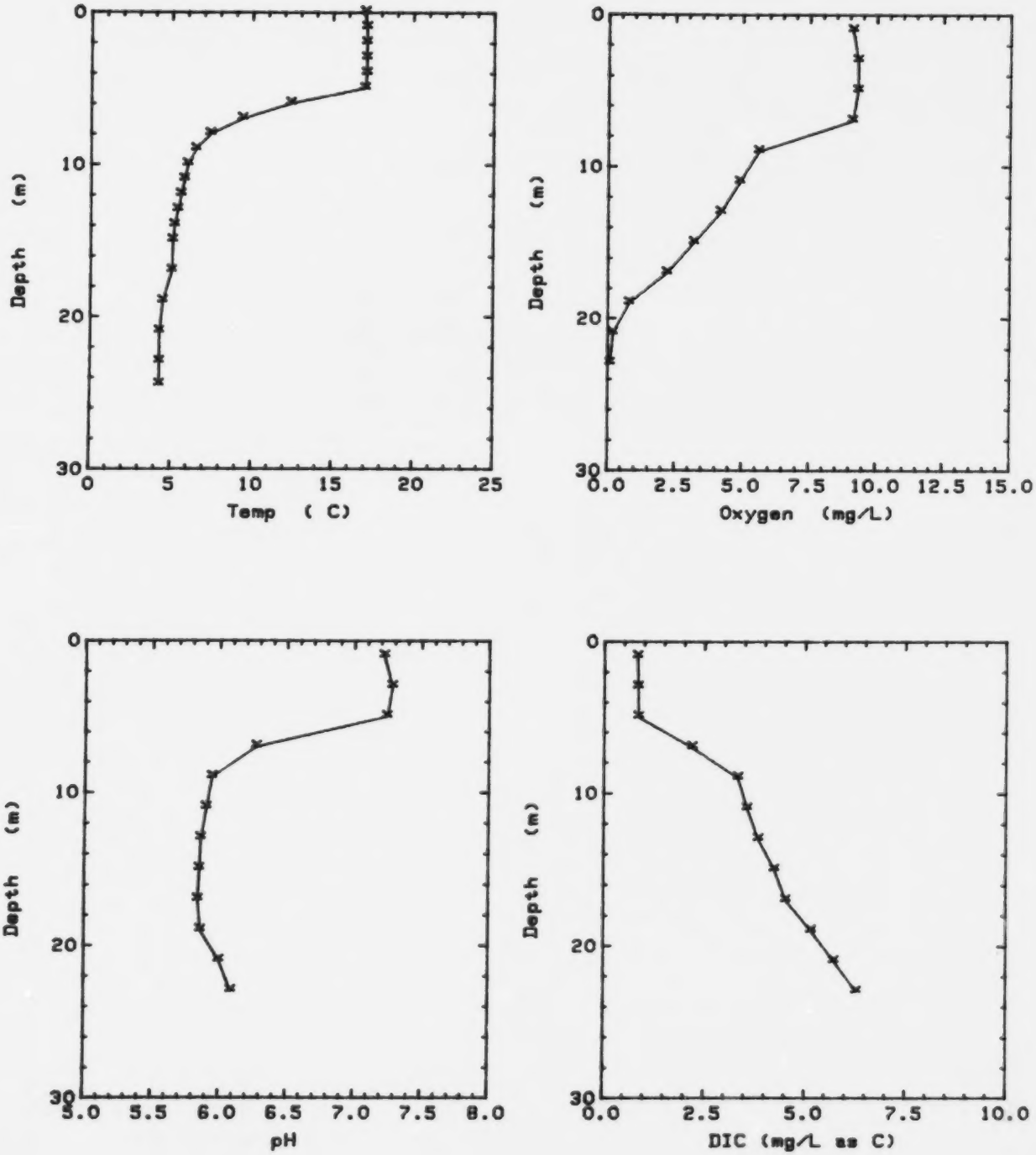


Figure 38

BUCK 82.09.27

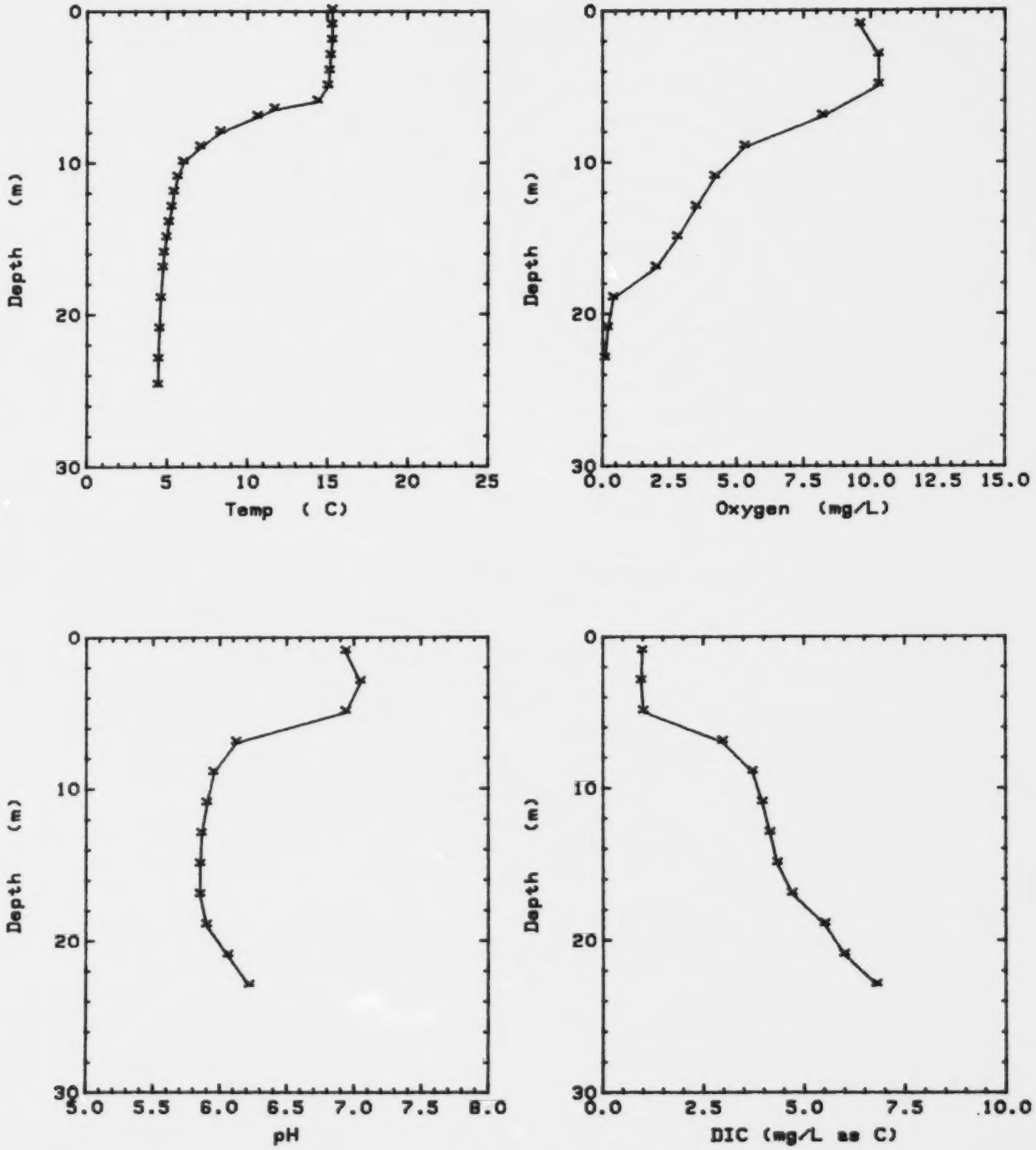


Figure 39

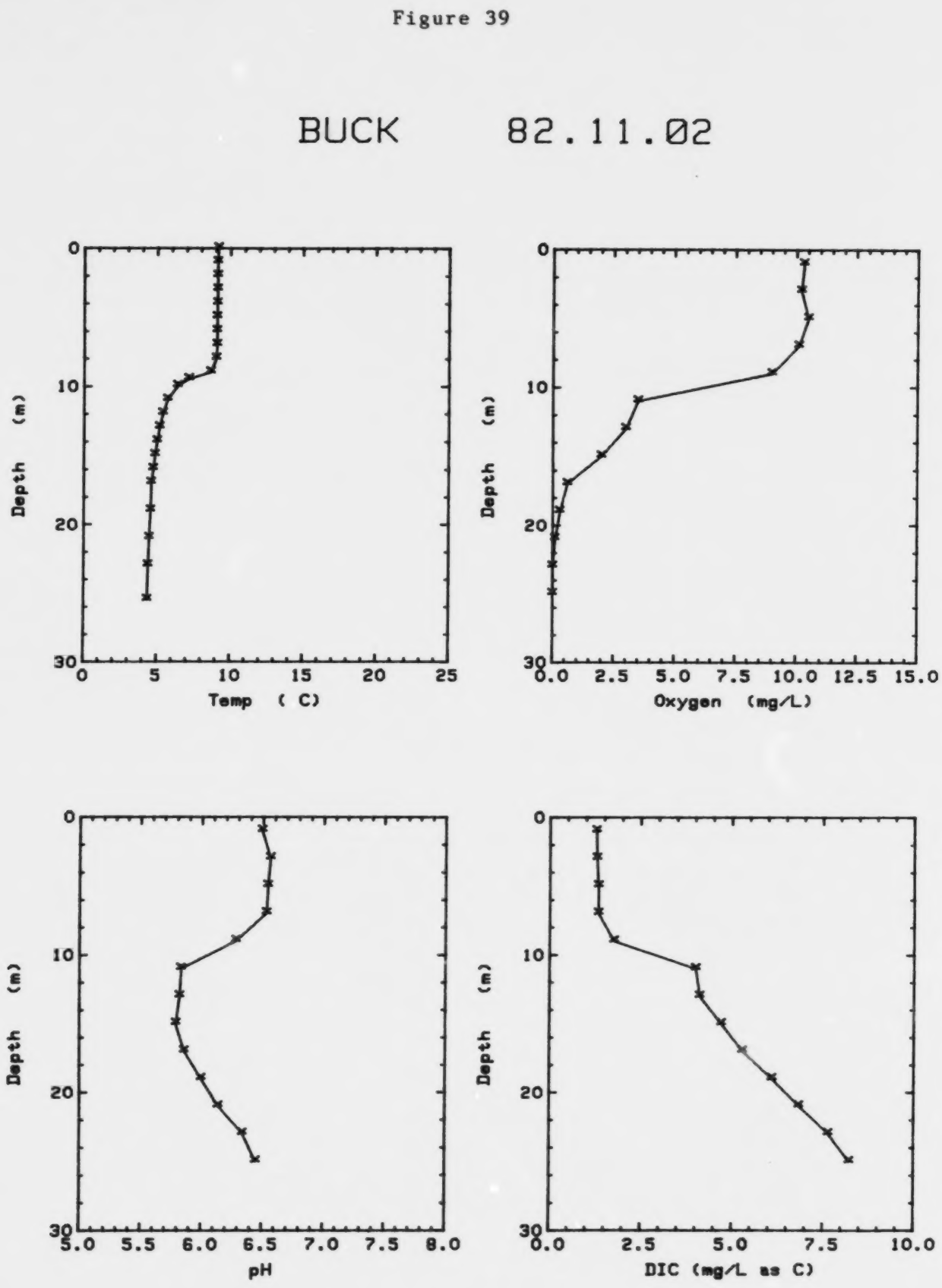


Figure 40

BUCK 83.04.28

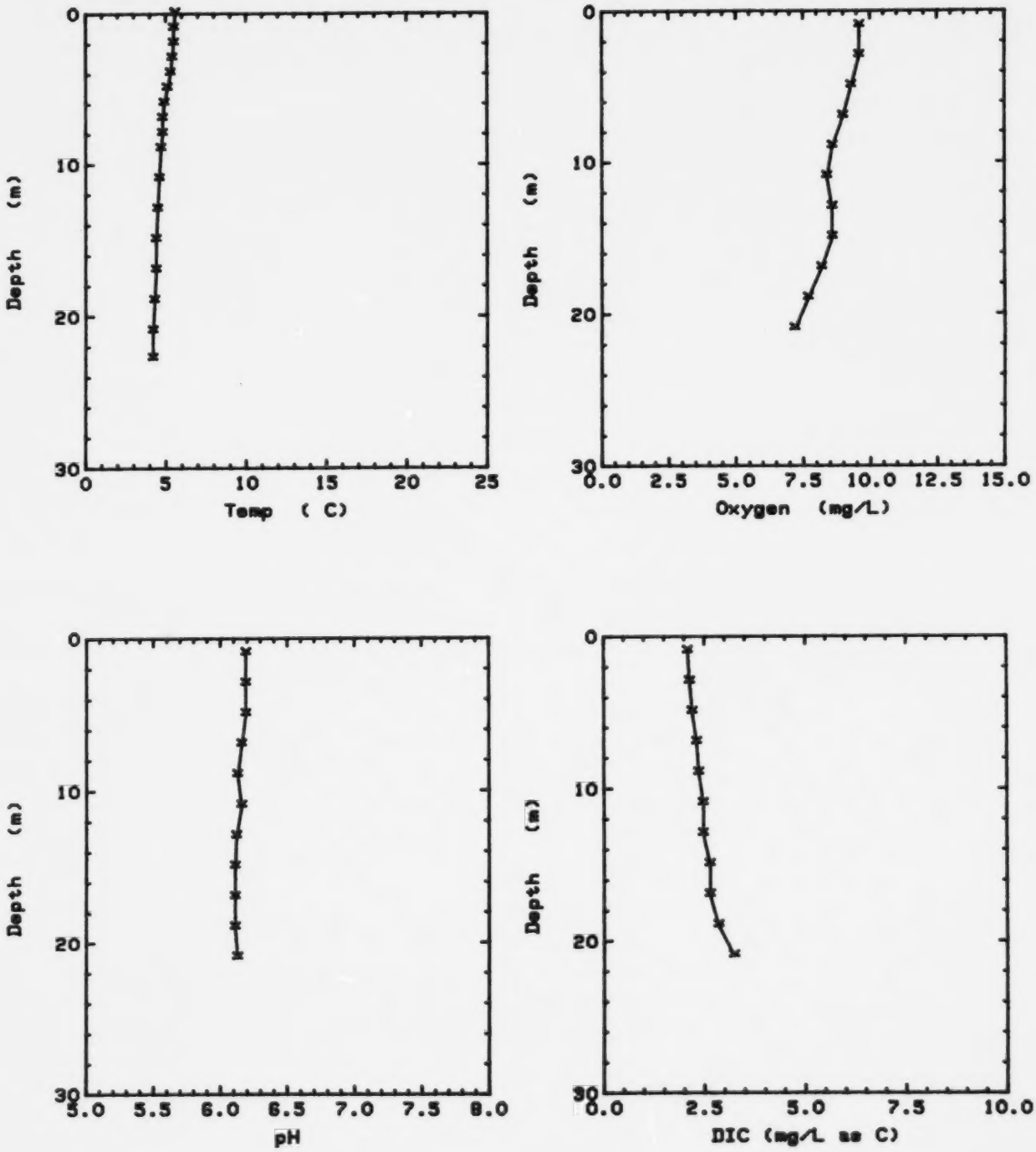
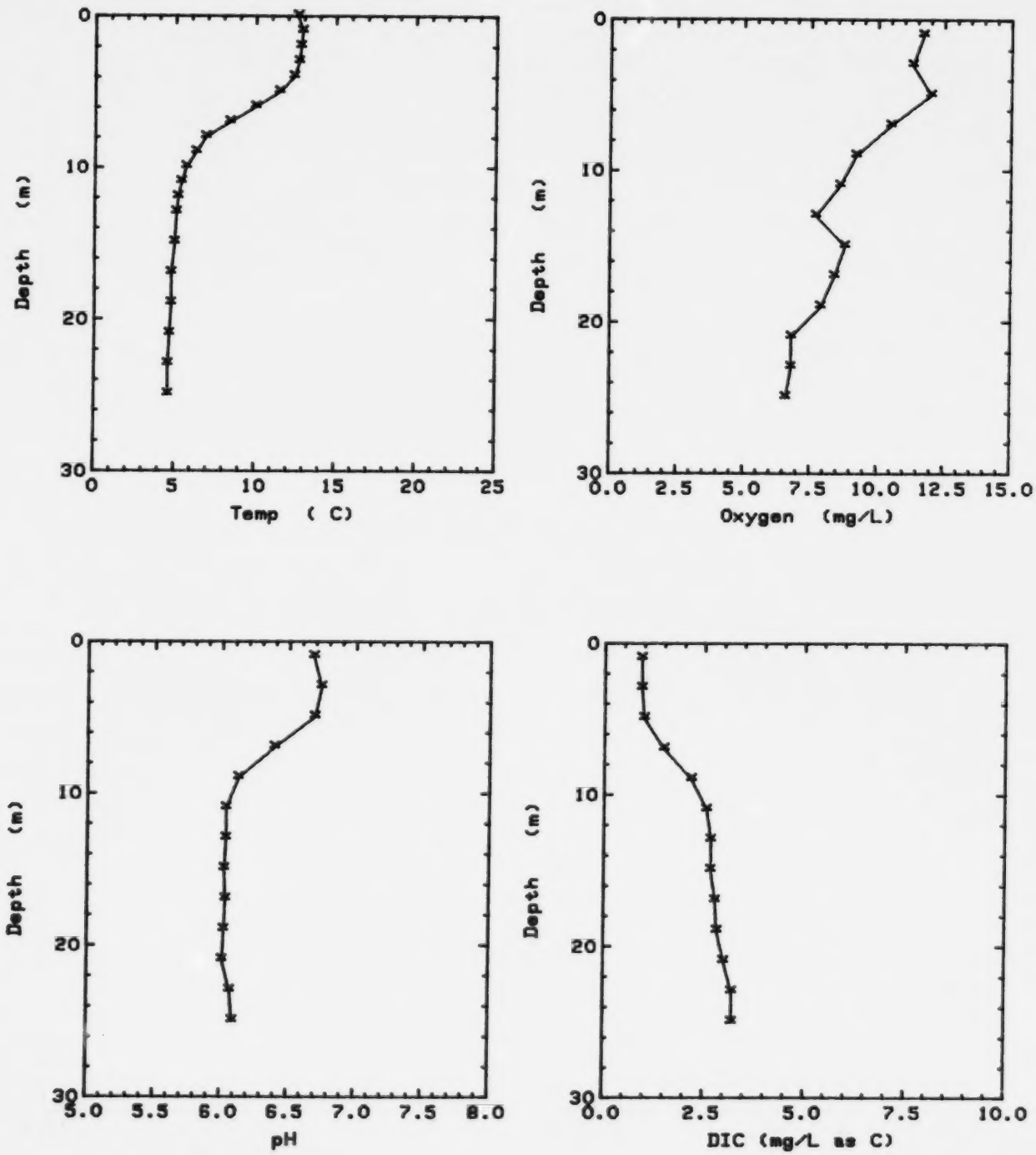


Figure 41



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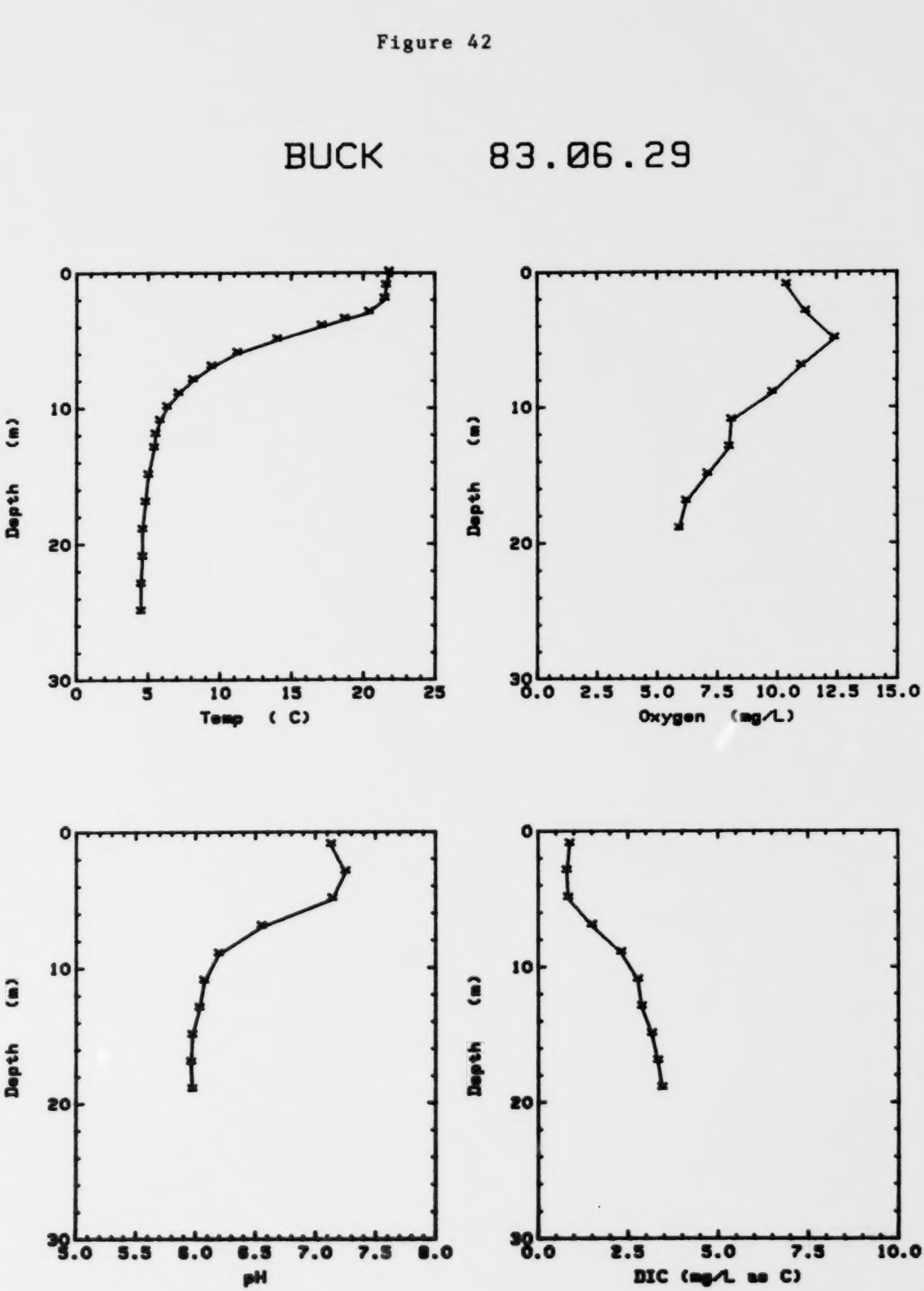


Figure 43

BUCK 83.07.27

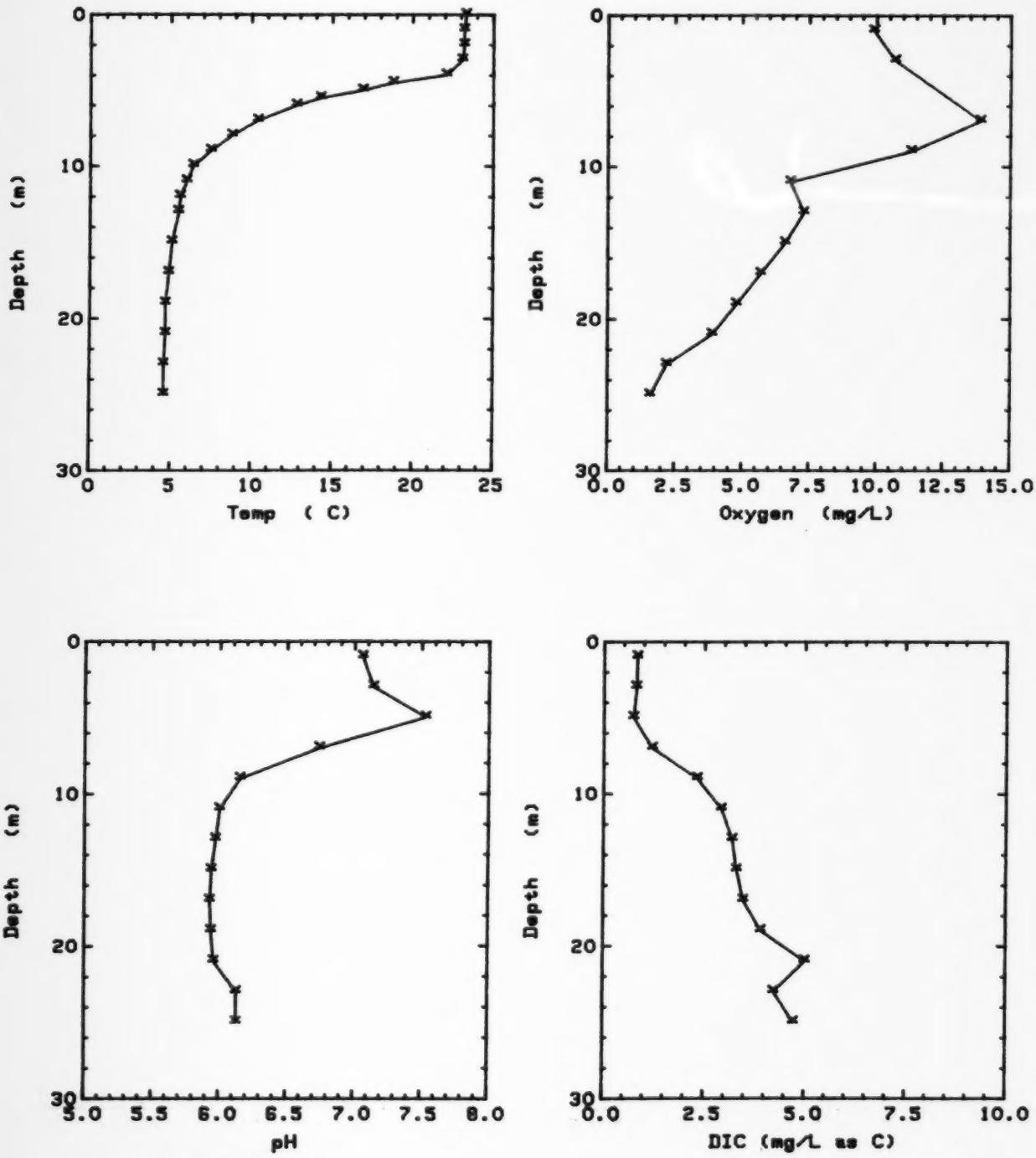
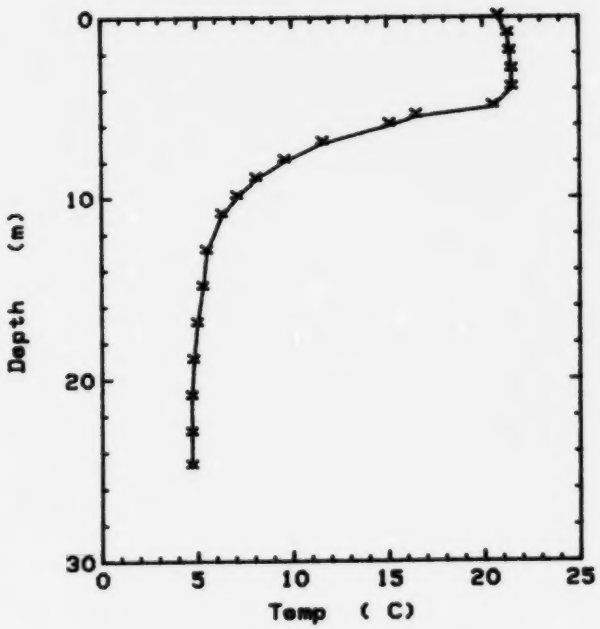
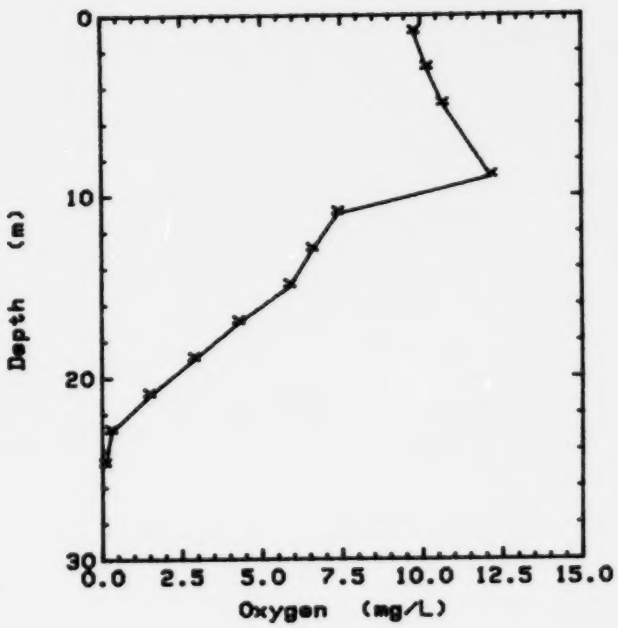
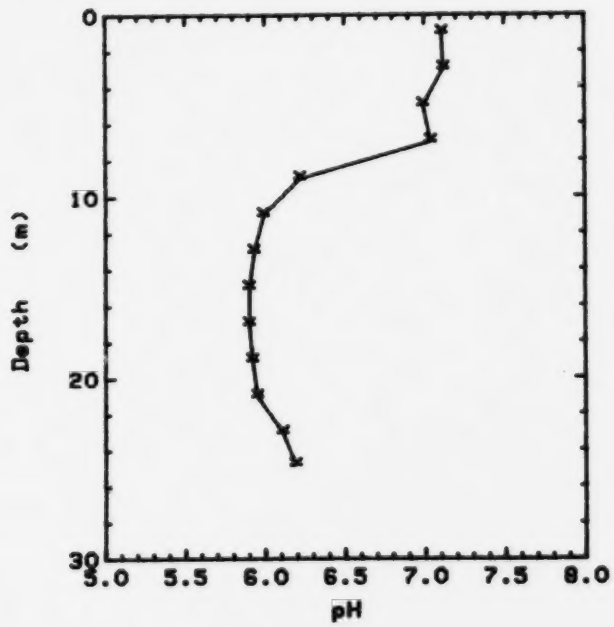


Figure 44

BUCK 83.08.24







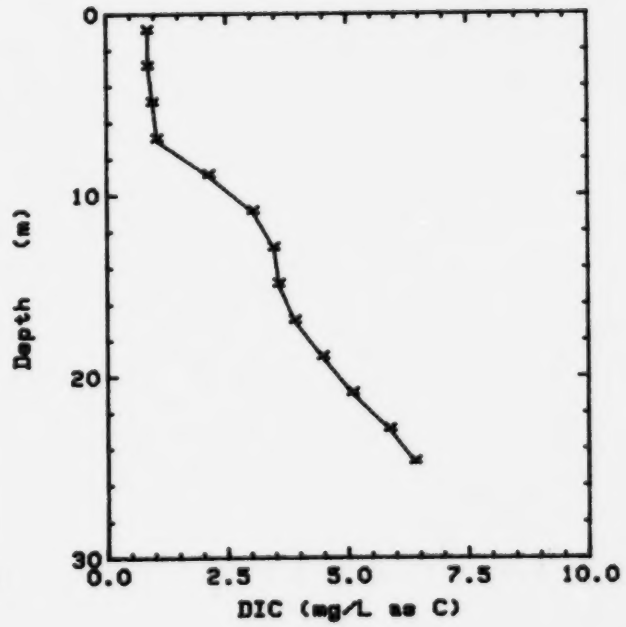


Figure 45

BUCK 83.10.19

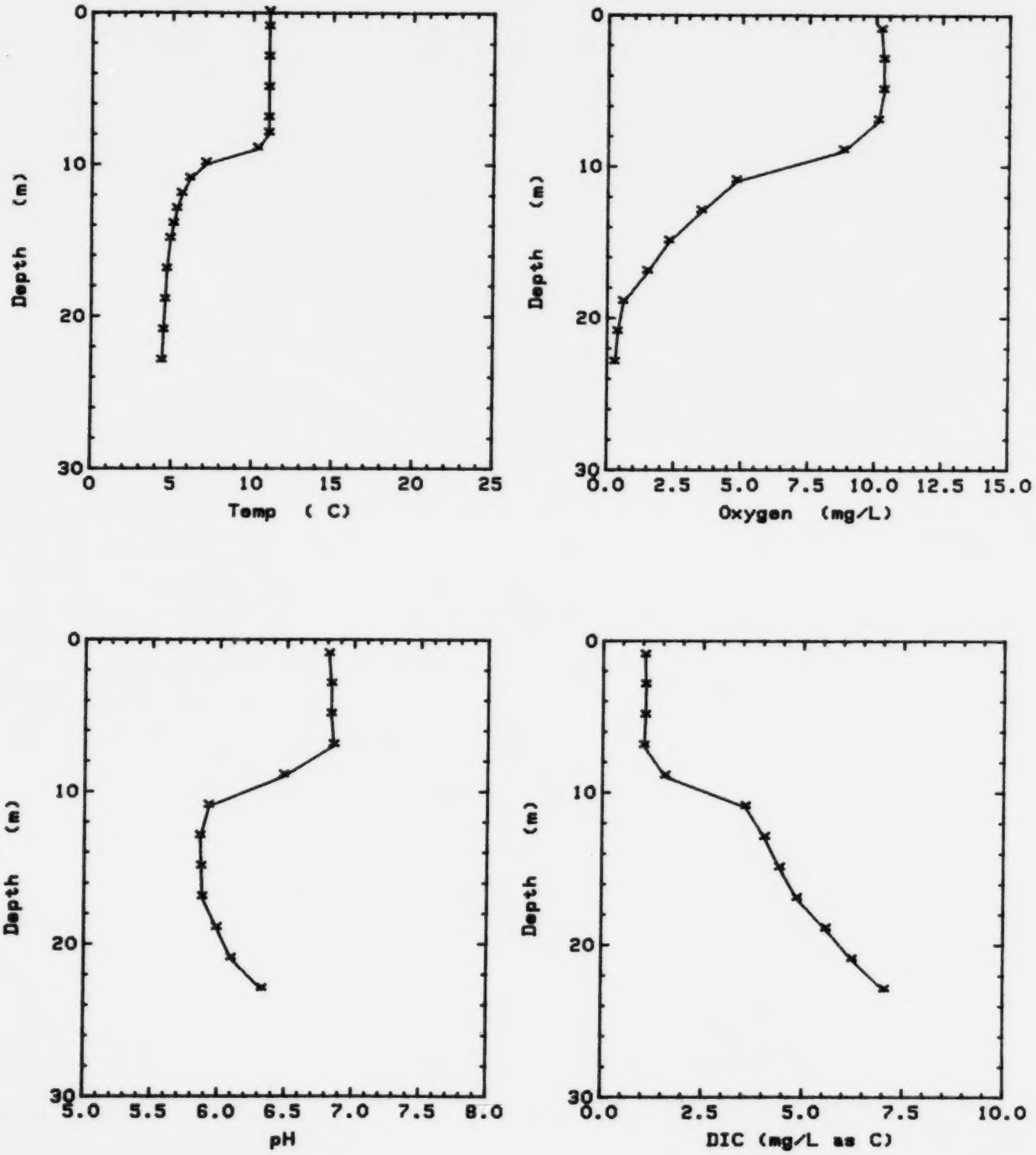


Figure 46

BUCK 84.05.09

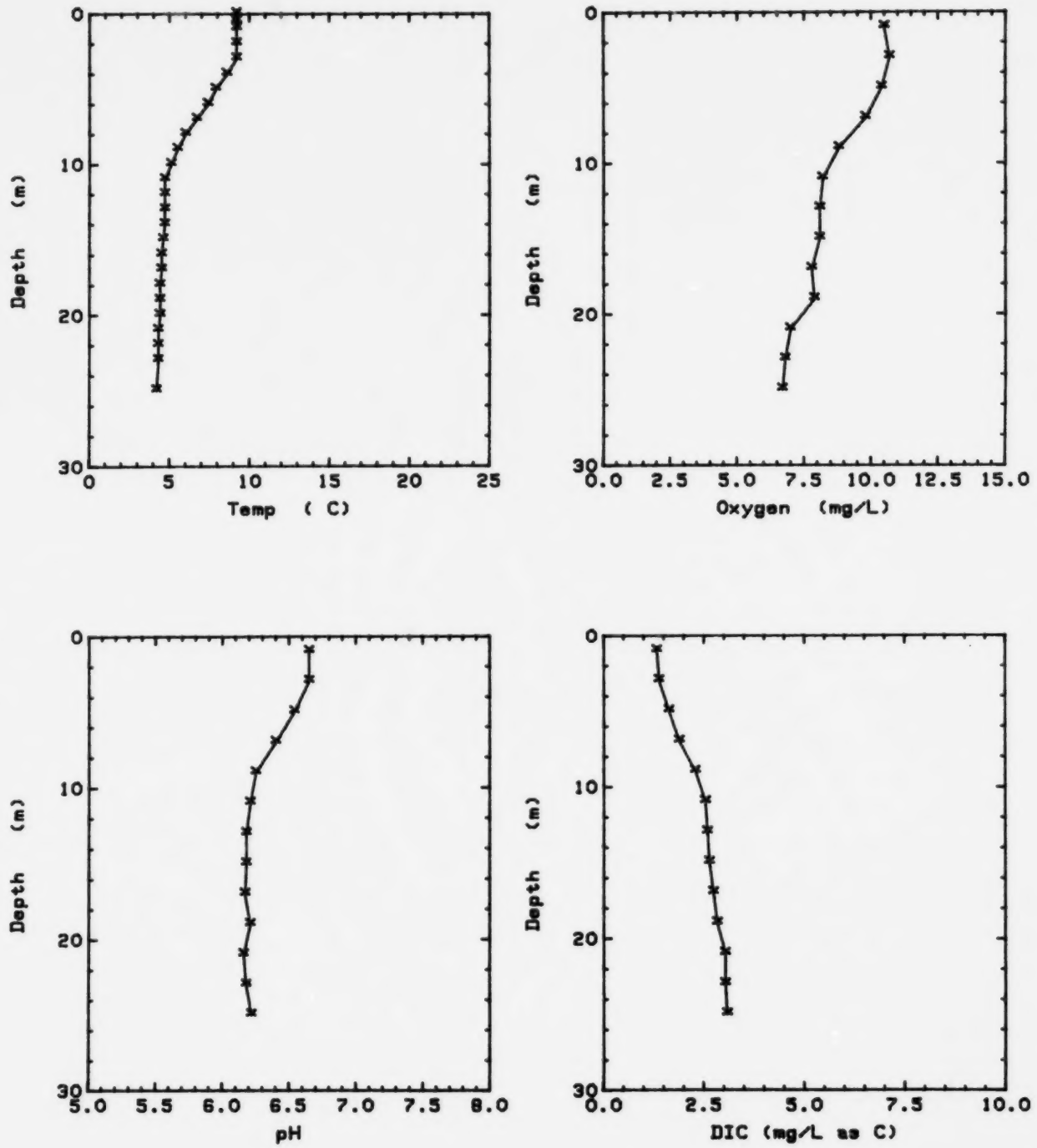


Figure 47

BUCK 84.06.06

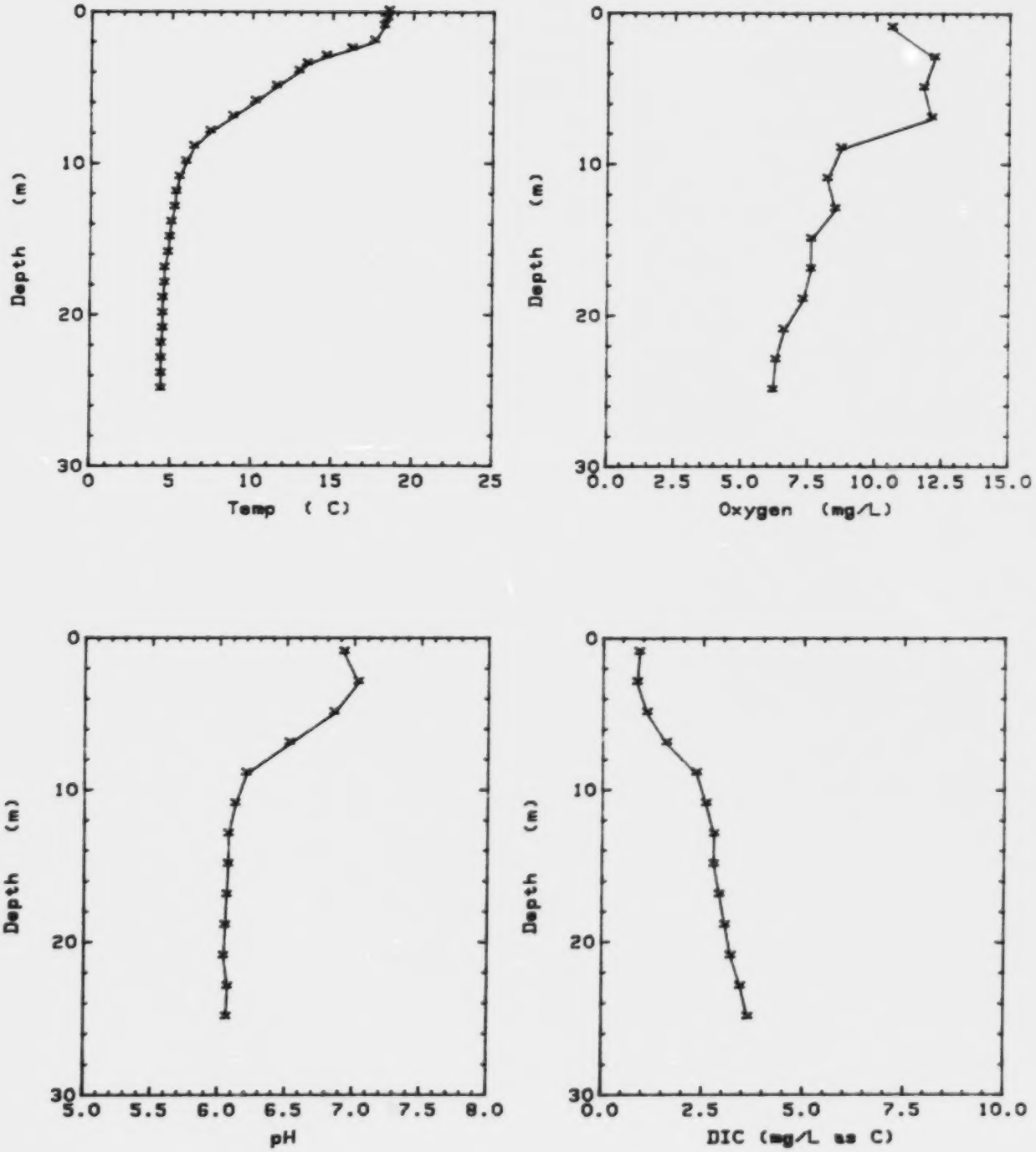


Figure 48

BUCK 84.07.05

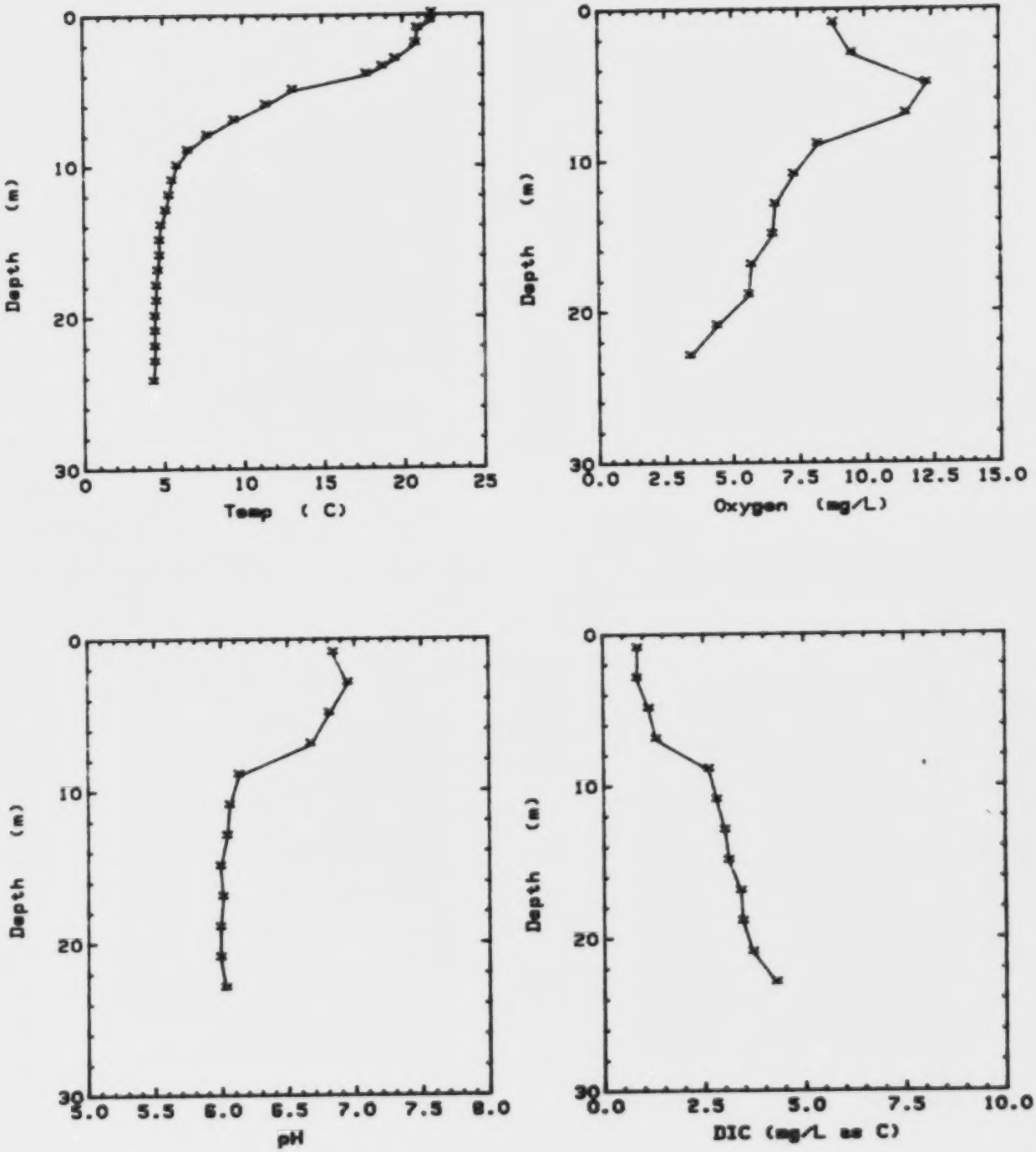


Figure 49

BUCK 84.08.01

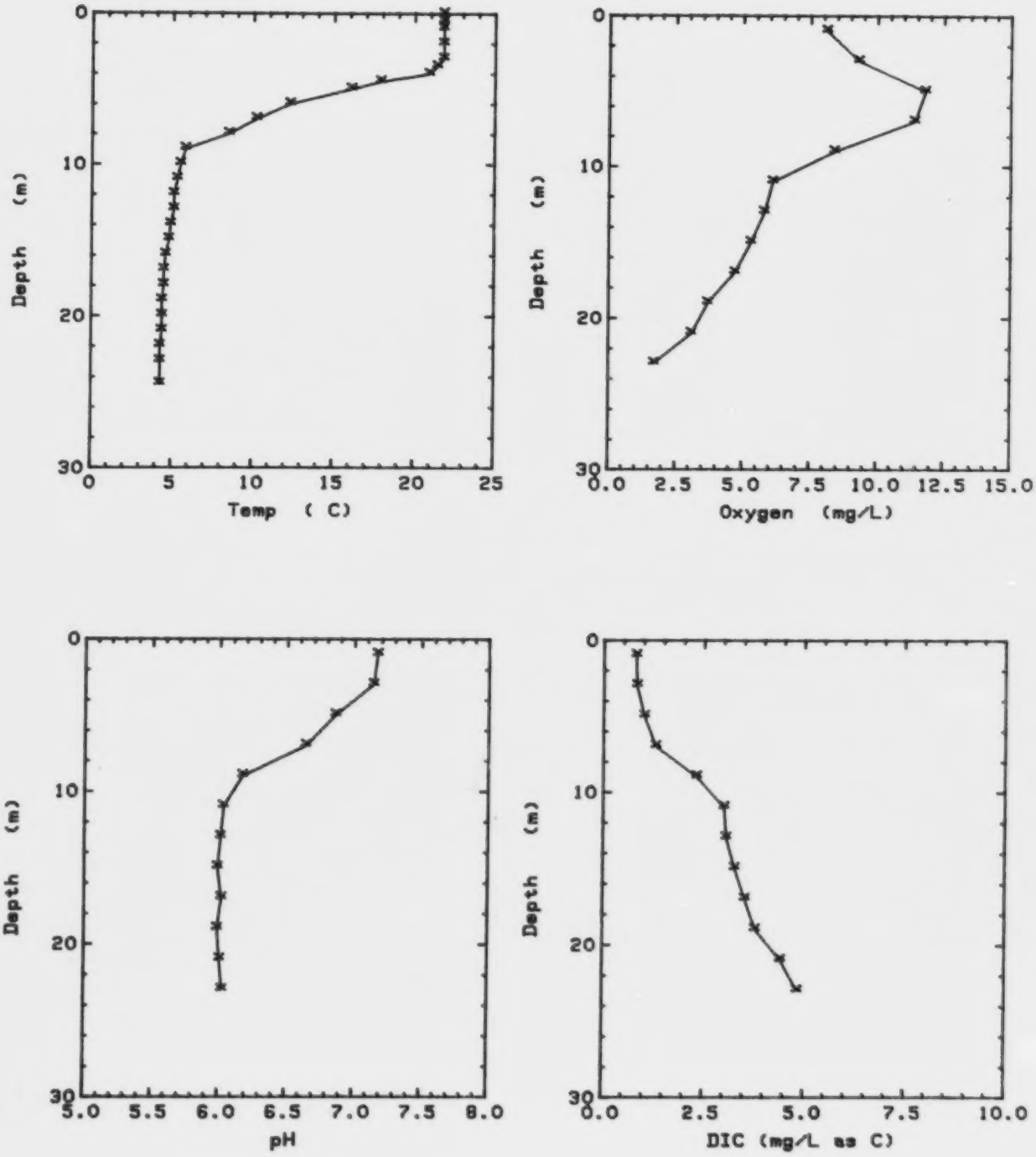
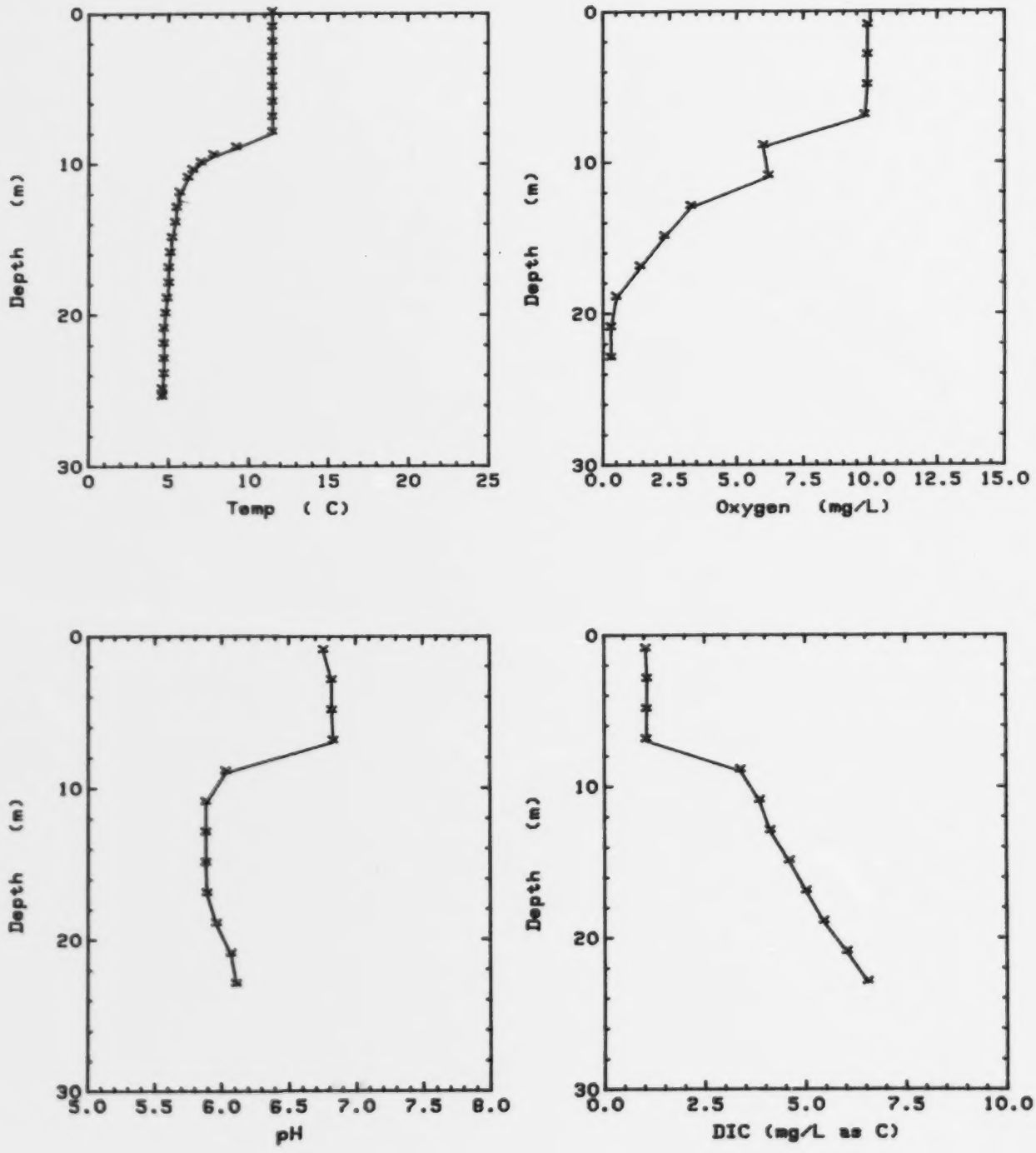


Figure 50

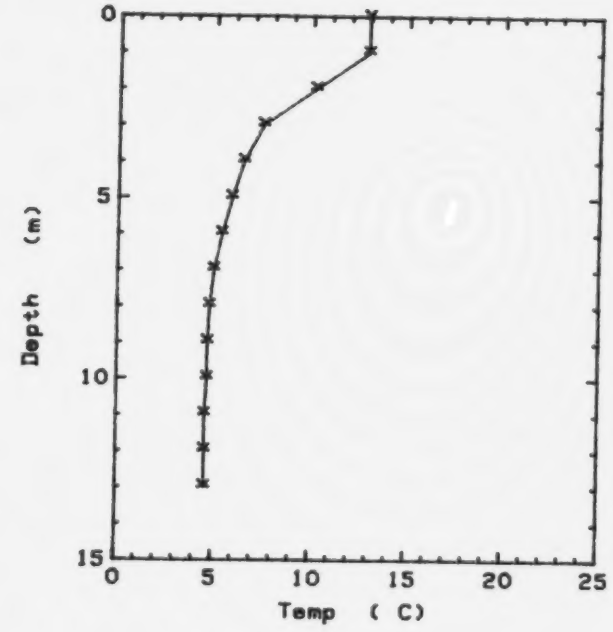
BUCK 84.10.25

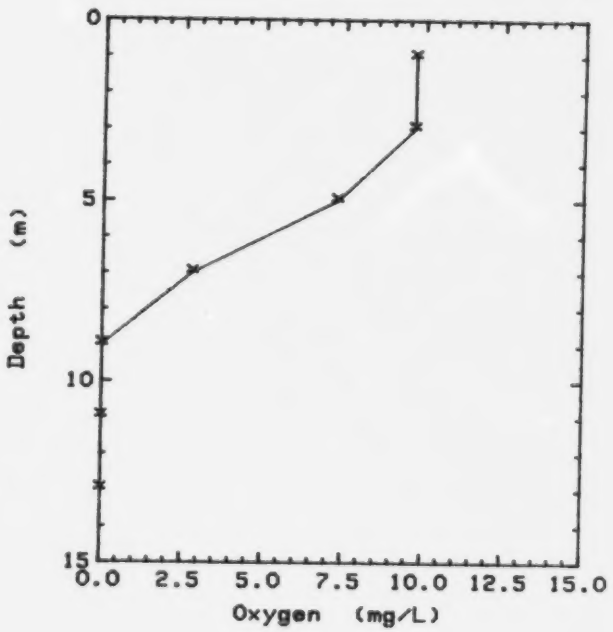


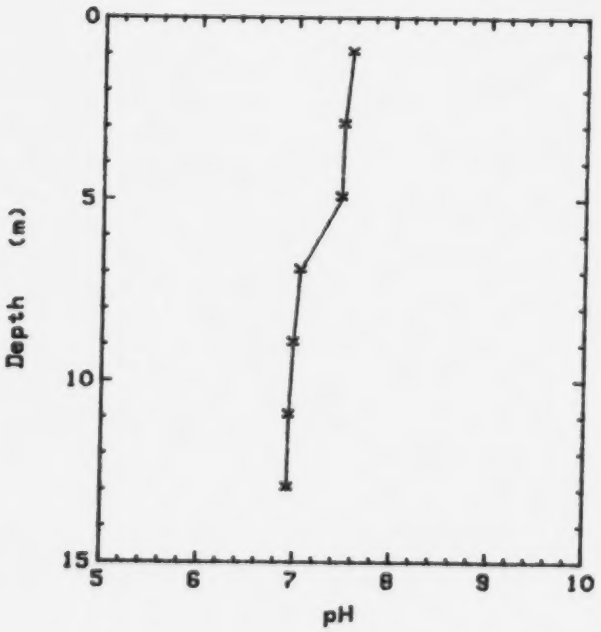
Figures 51-65 - GLEN

Figure 51

GLEN 82.05.06







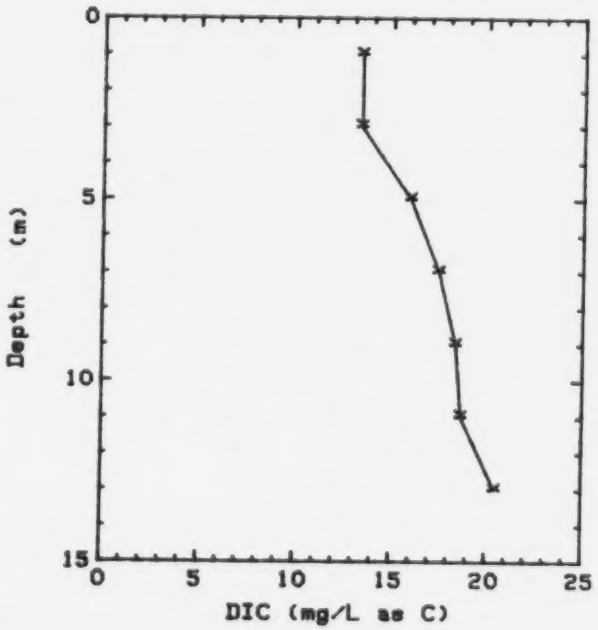
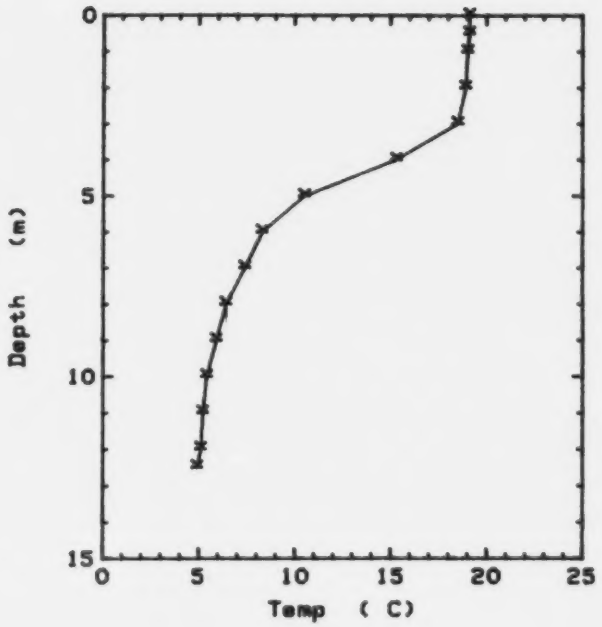
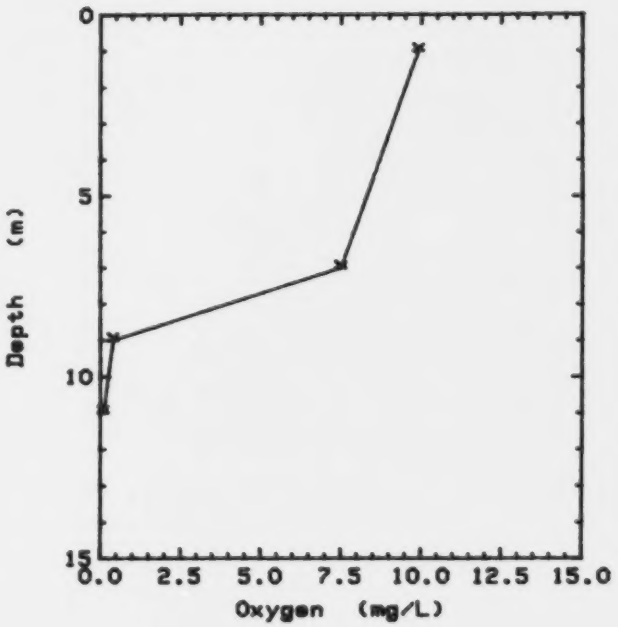
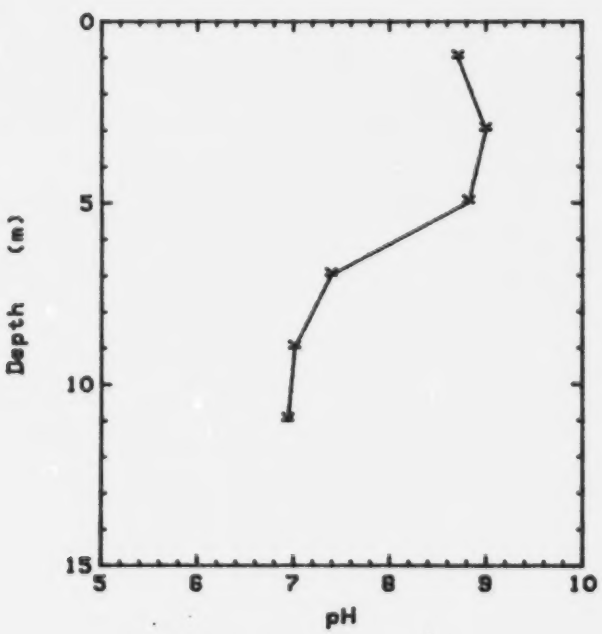


Figure 52

GLEN 82.06.24







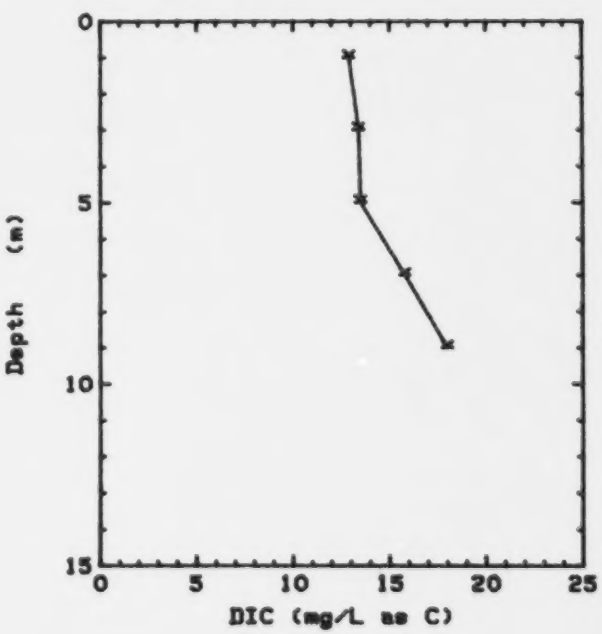


Figure 53

GLEN 82.07.22

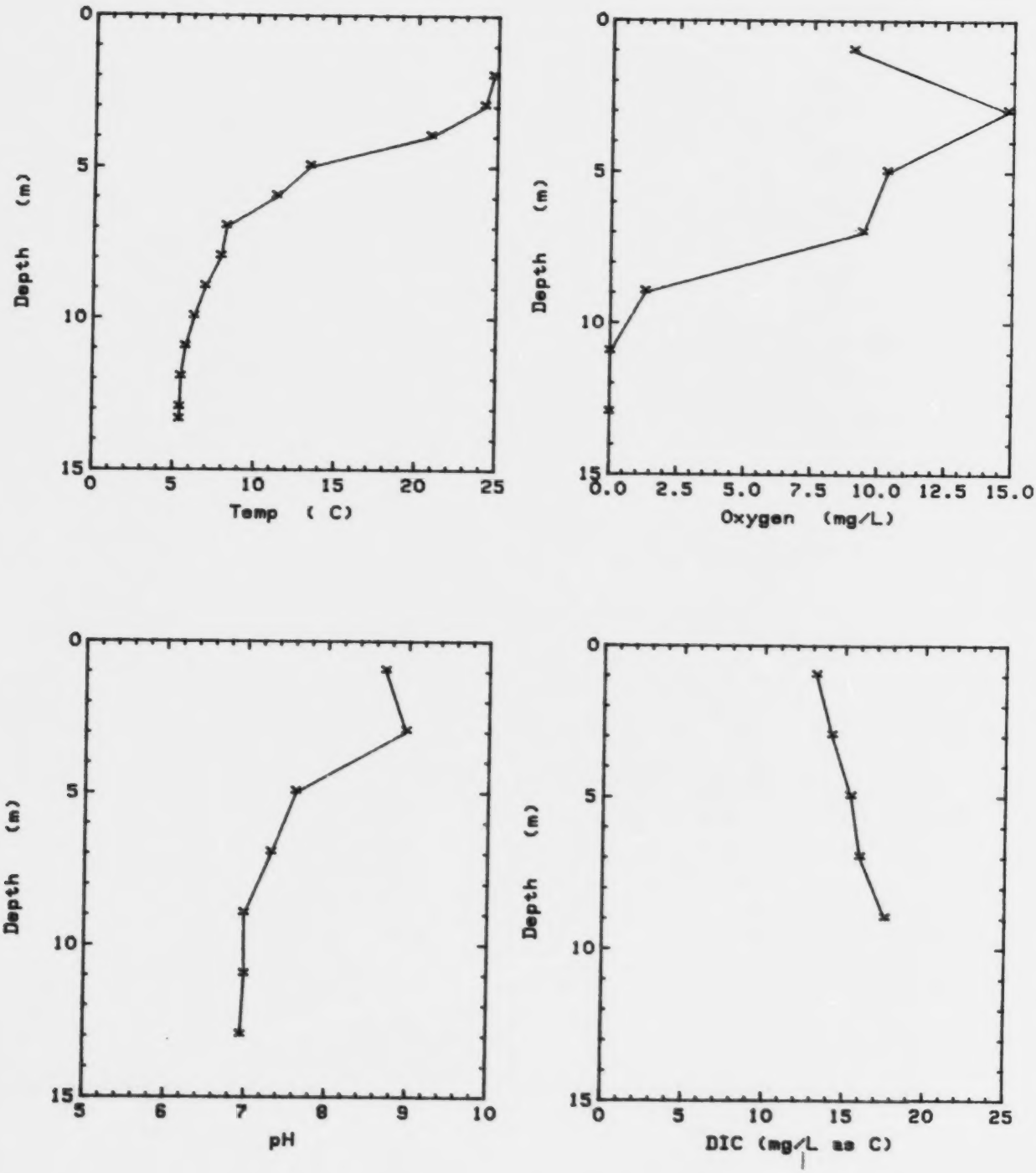


Figure 54

GLEN 82.08.19

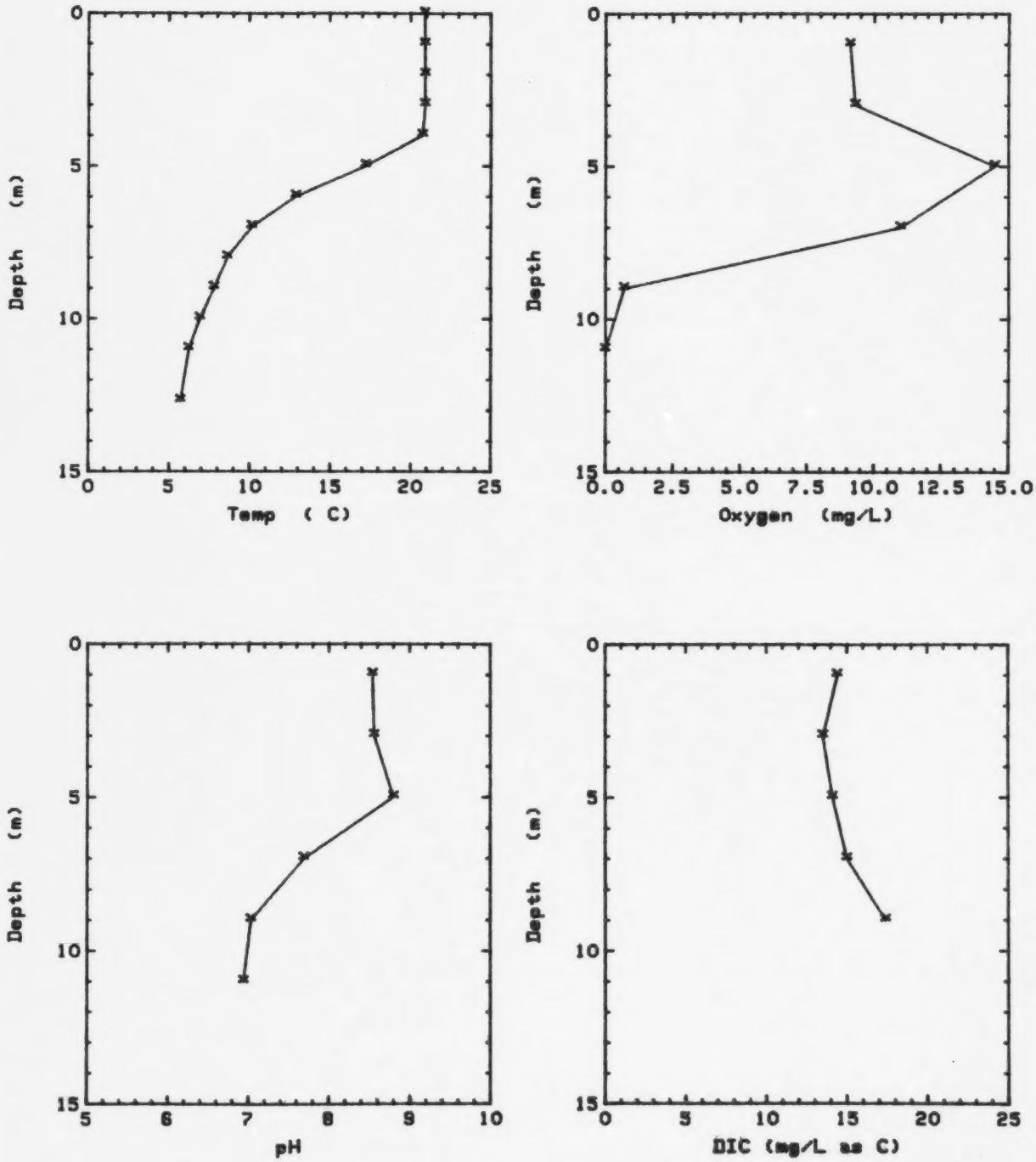
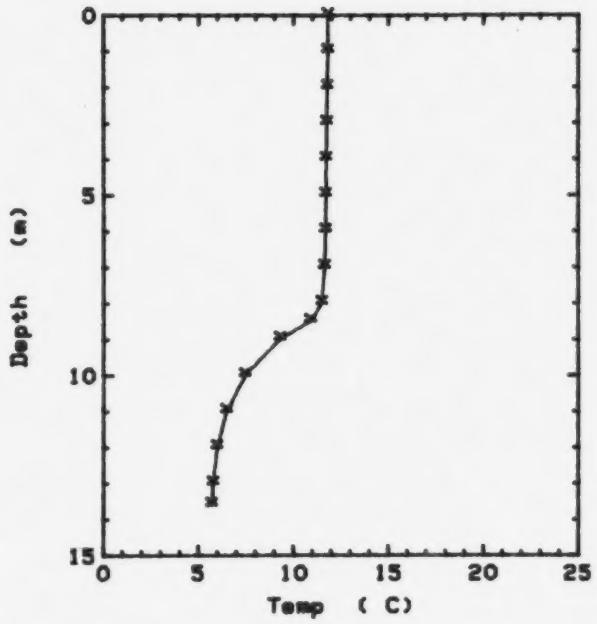
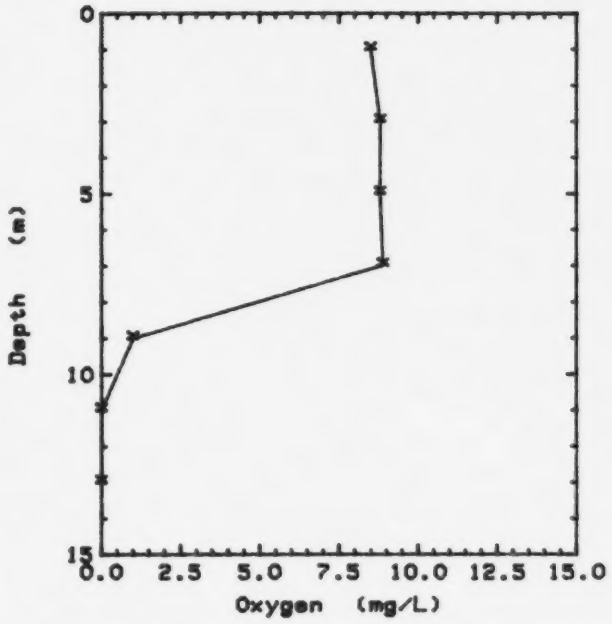
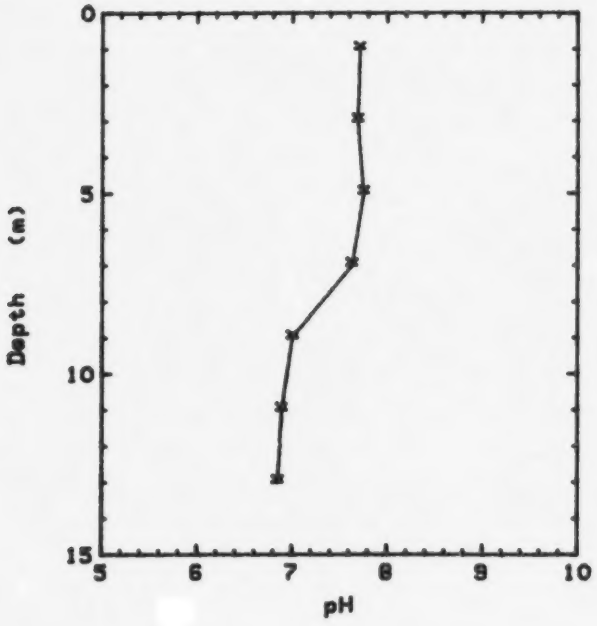


Figure 55

GLEN 82.10.20







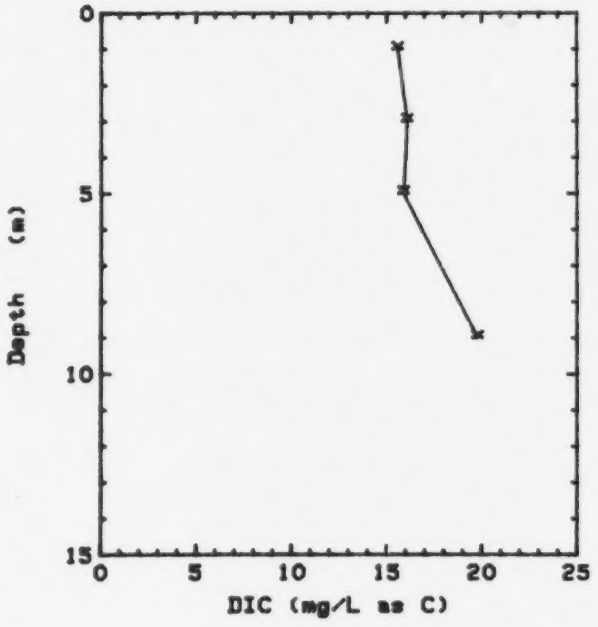
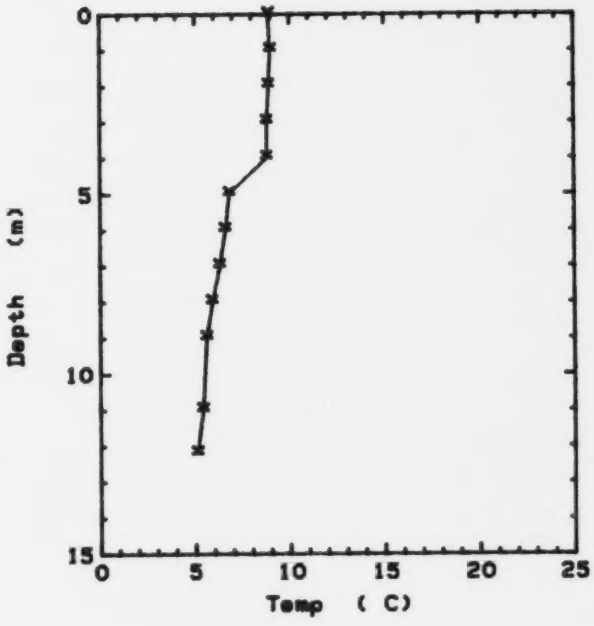
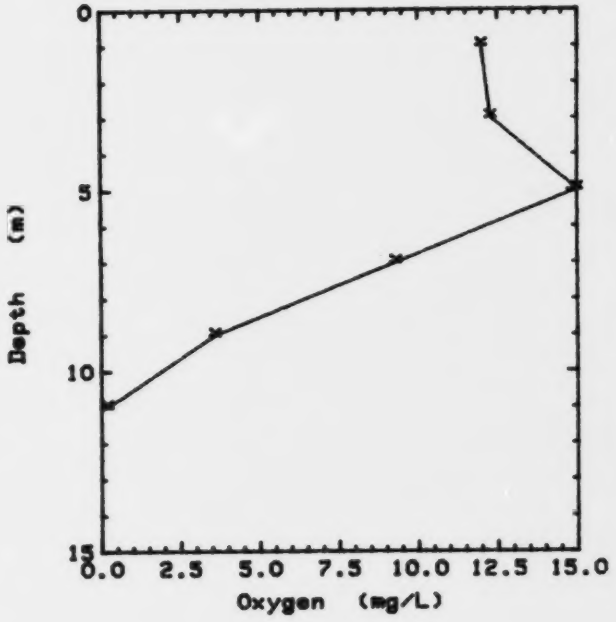
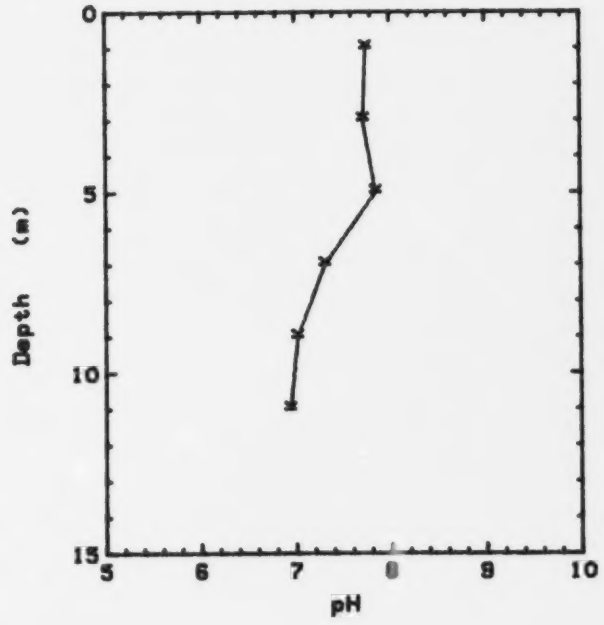


Figure 56

GLEN 83.05.09







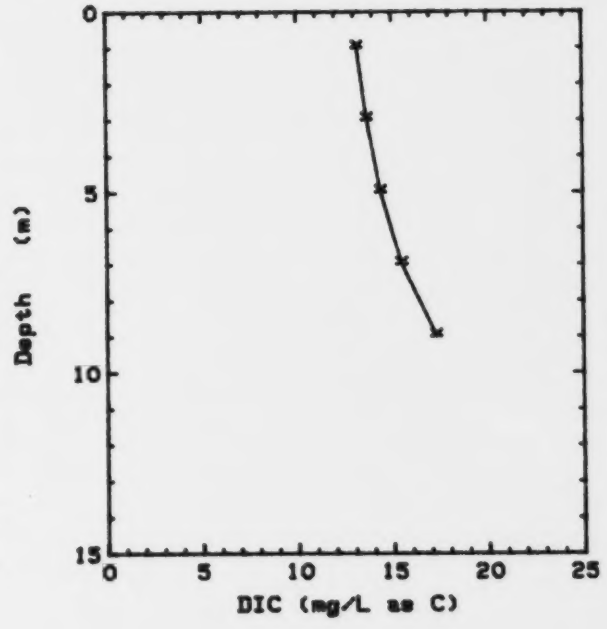
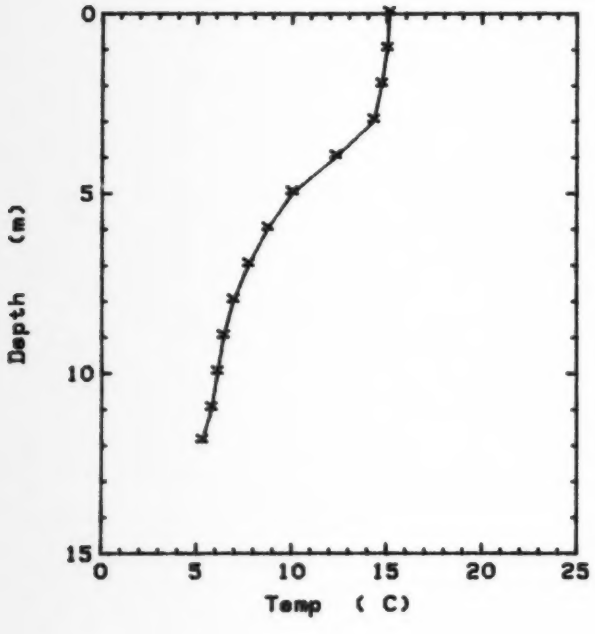
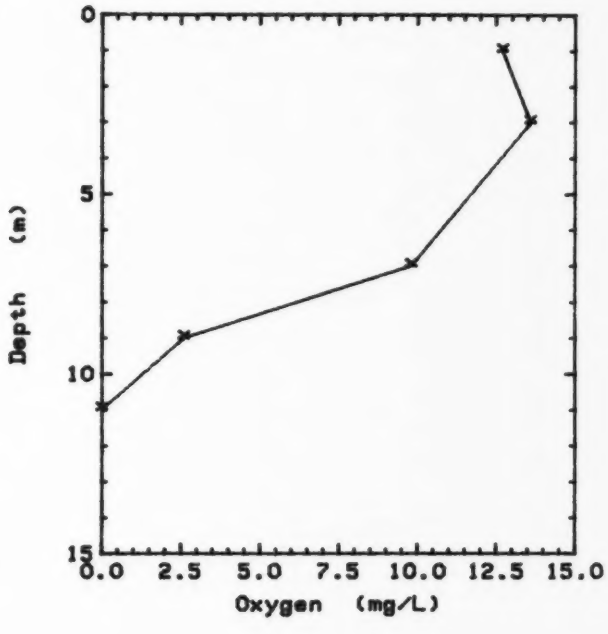
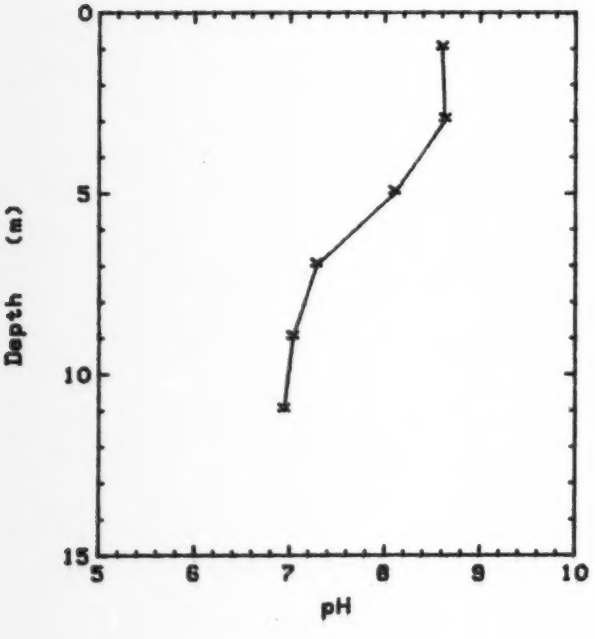


Figure 57

GLEN 83.06.09







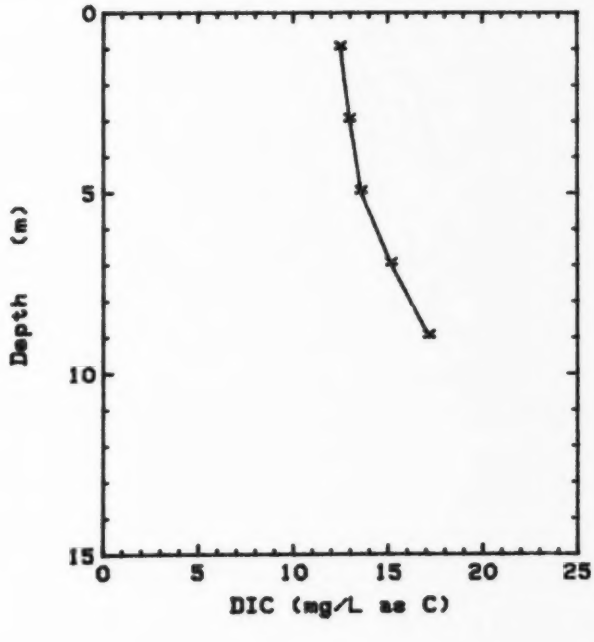


Figure 58

GLEN 83.07.07

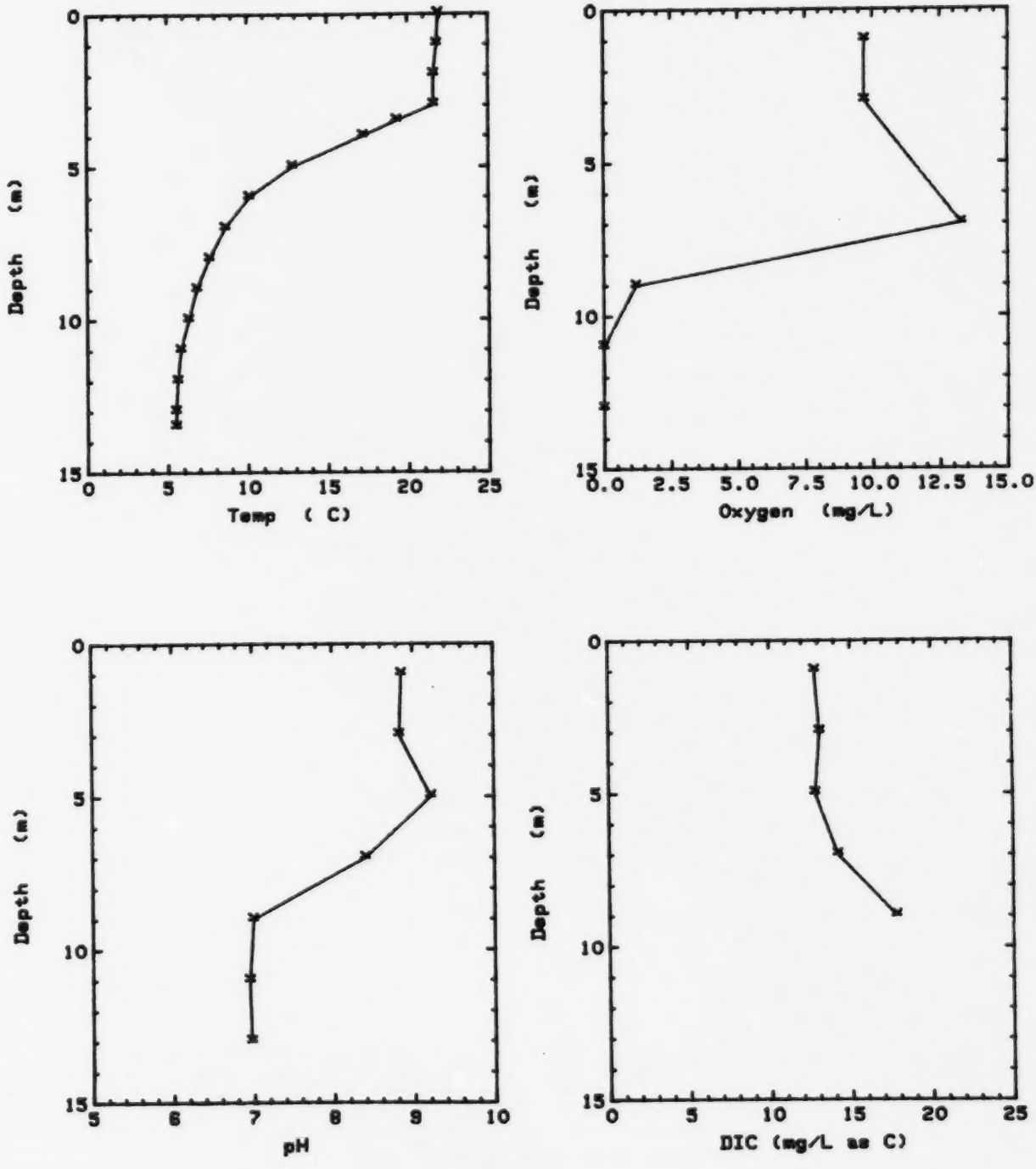


Figure 59

GLEN 83.09.01

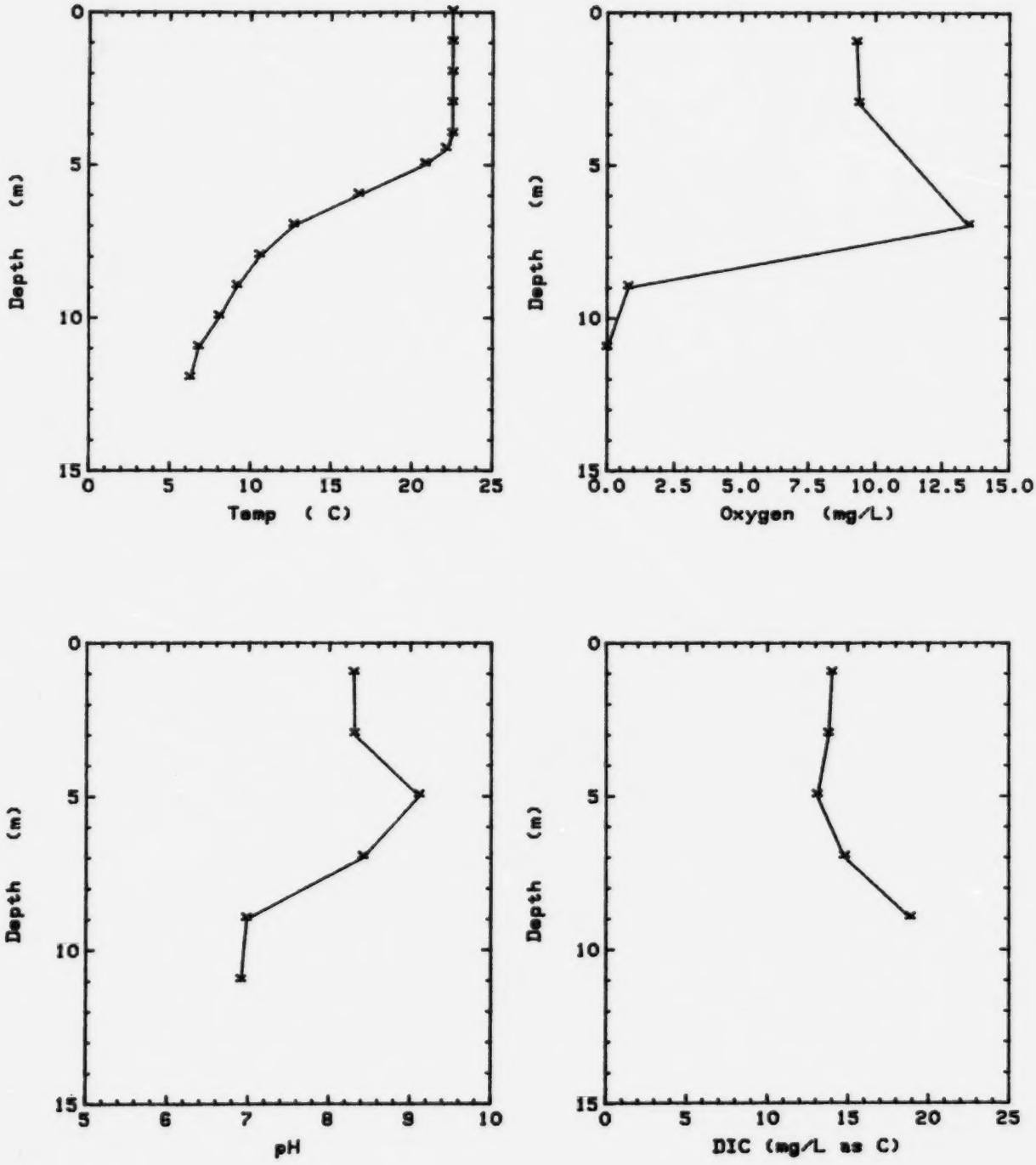


Figure 60

GLEN 83.11.01

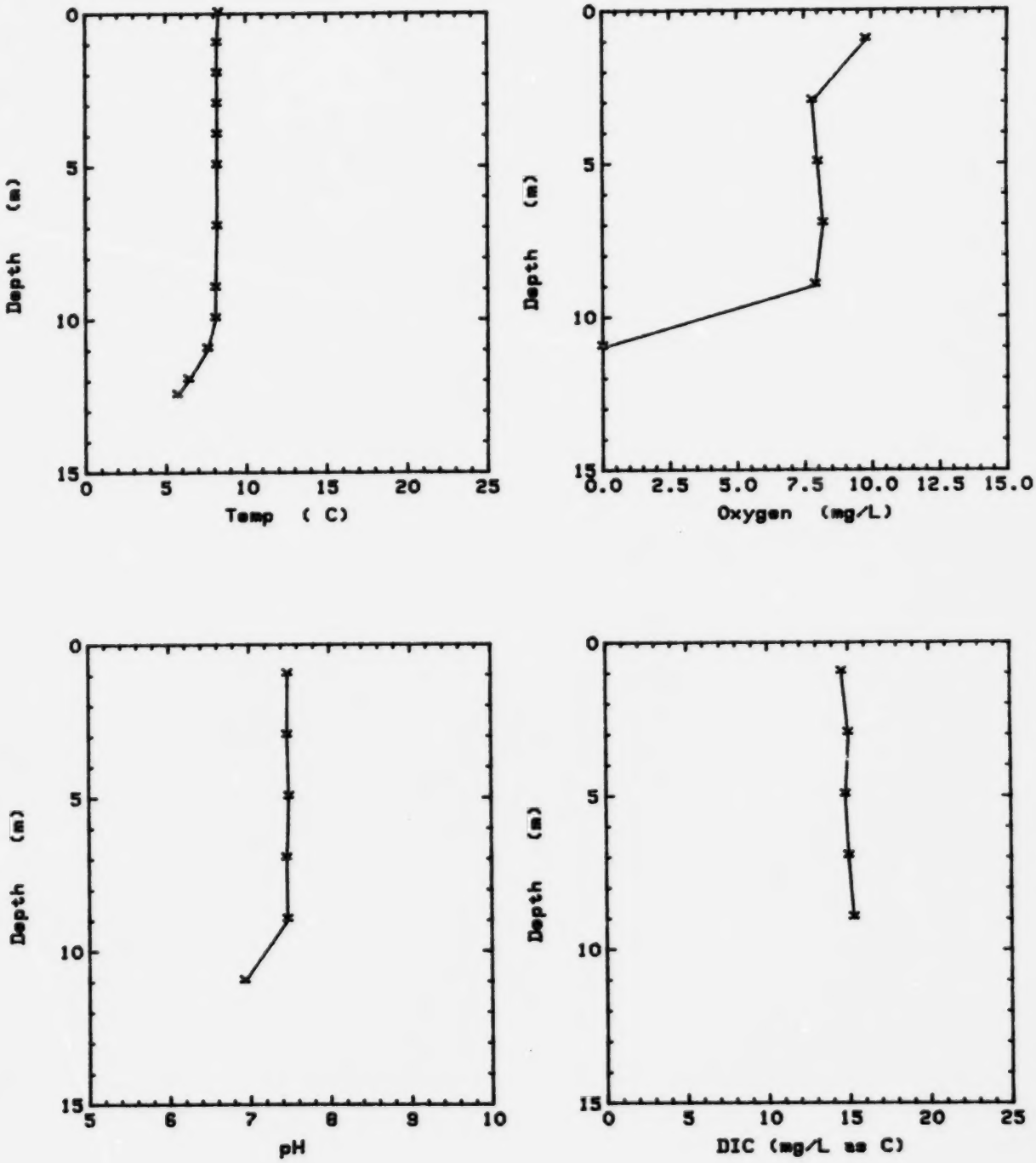
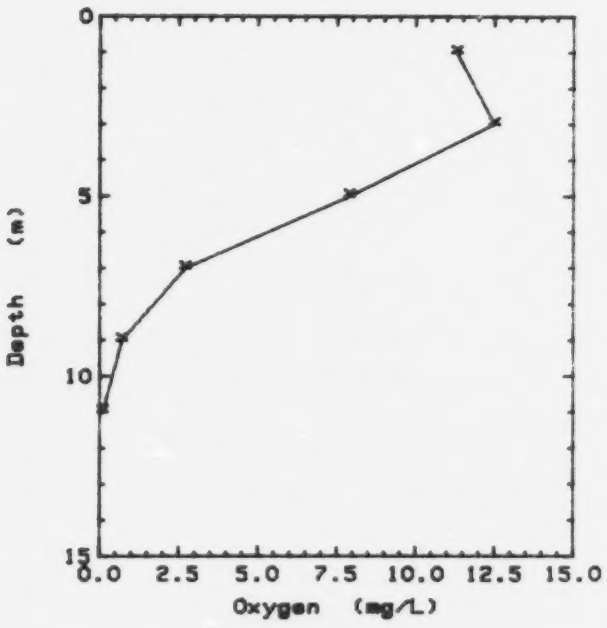
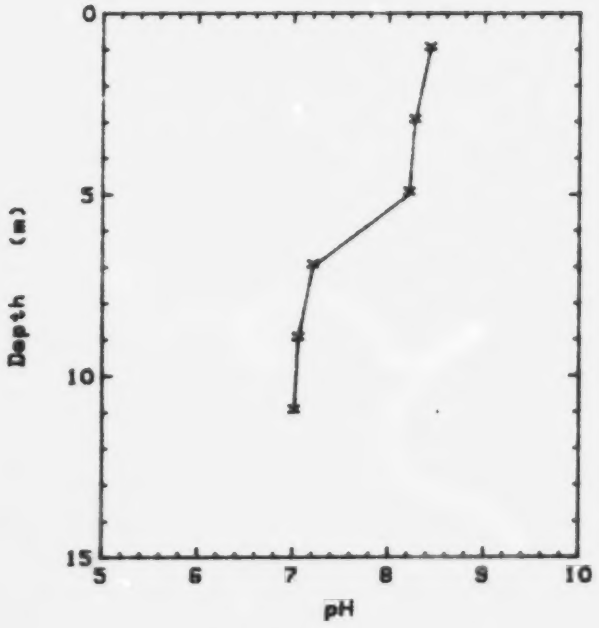


Figure 61

GLEN 84.05.22





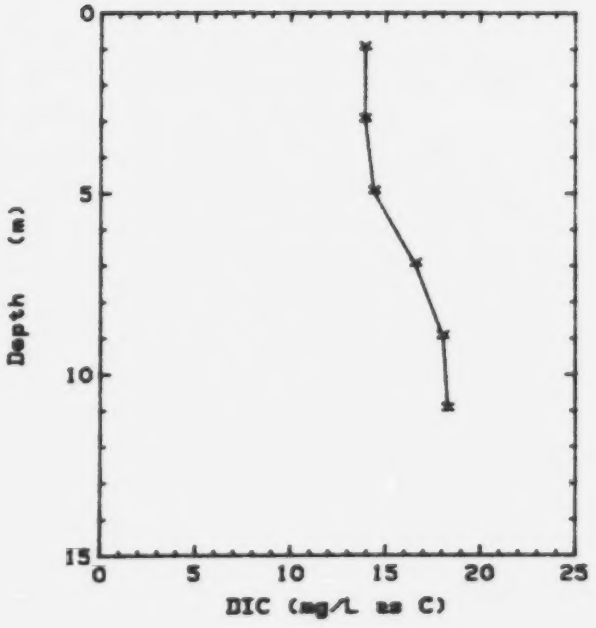


Figure 62

GLEN 84.07.19

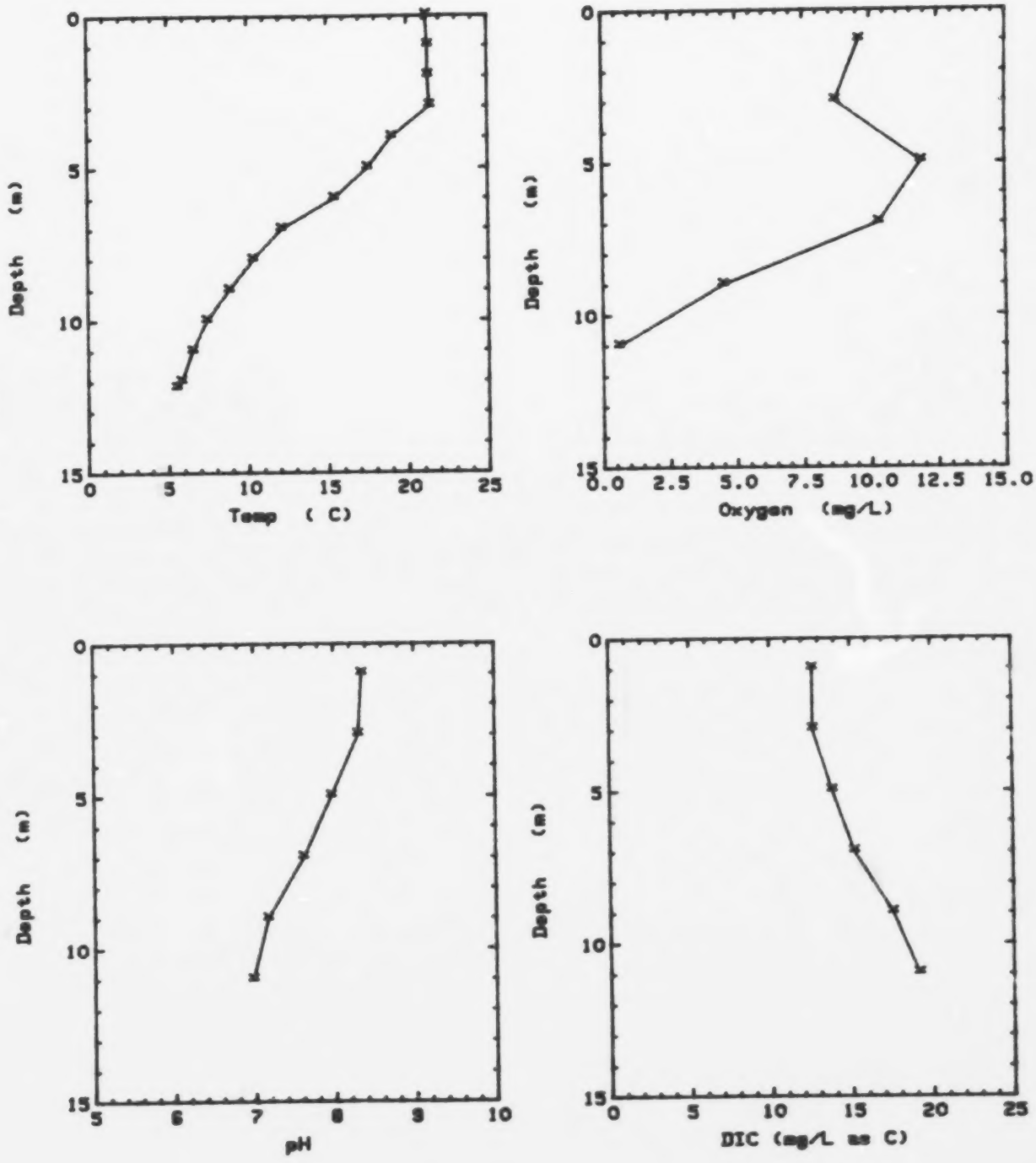


Figure 63

GLEN 84.08.29

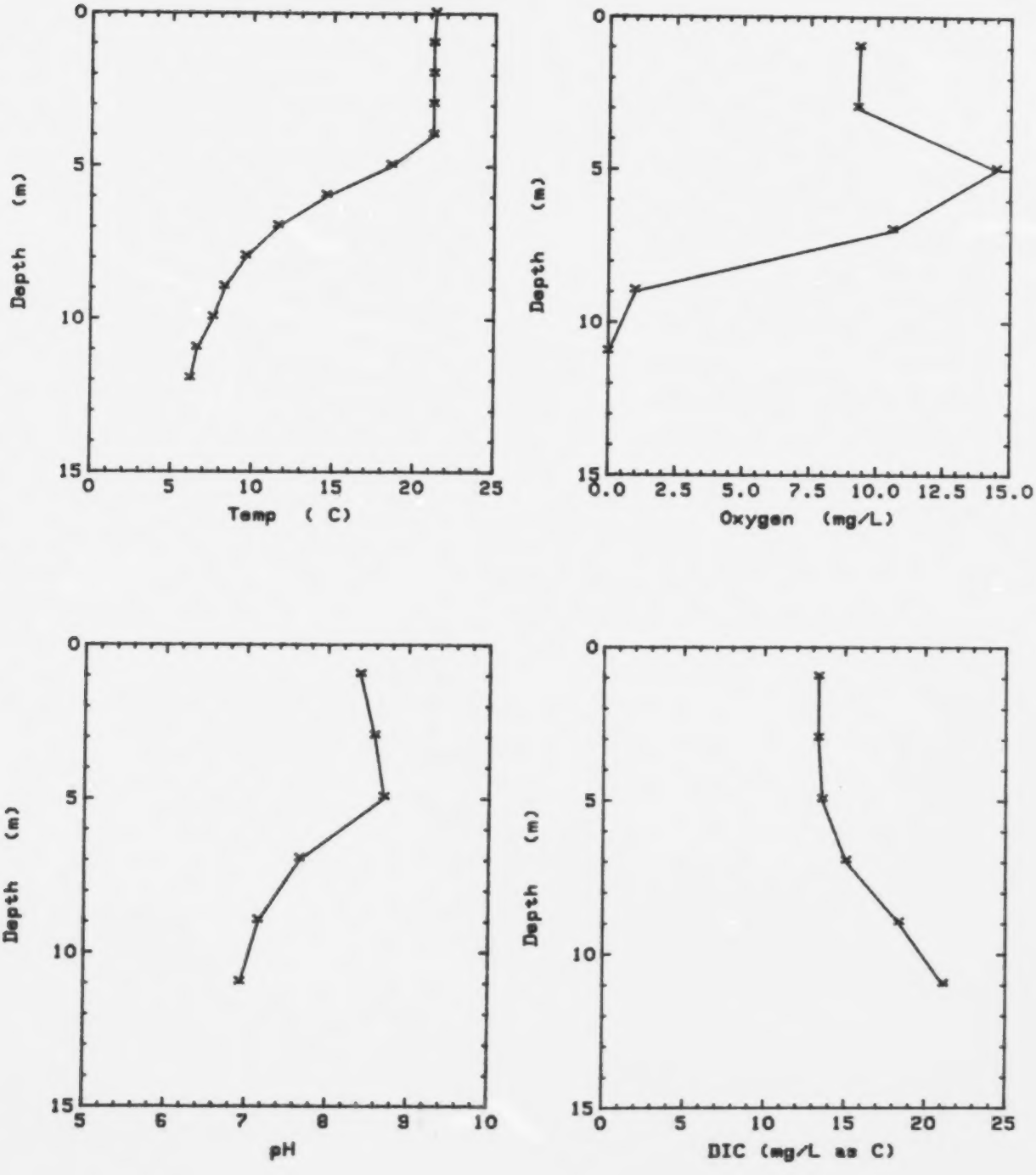
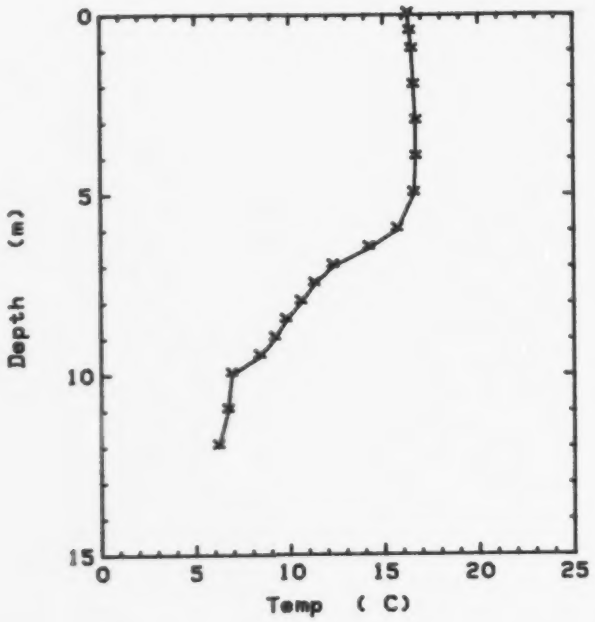
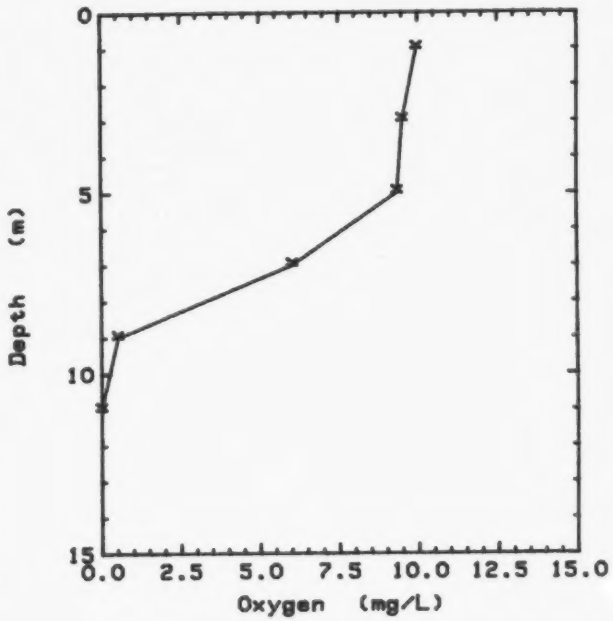


Figure 64

GLEN 84.09.26





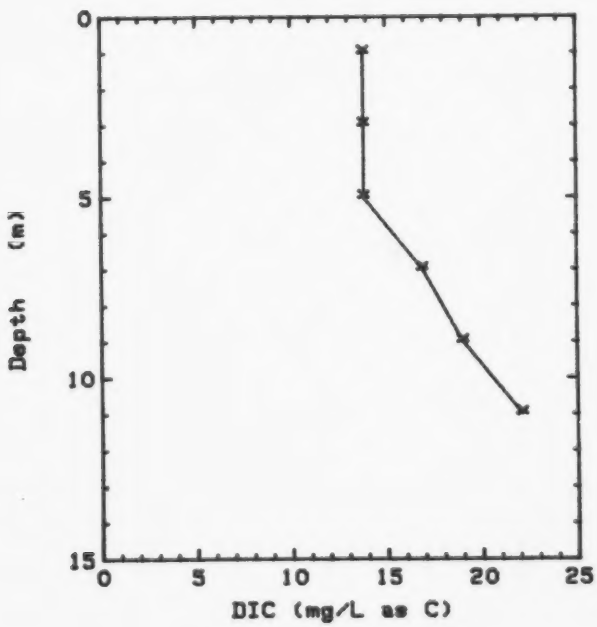
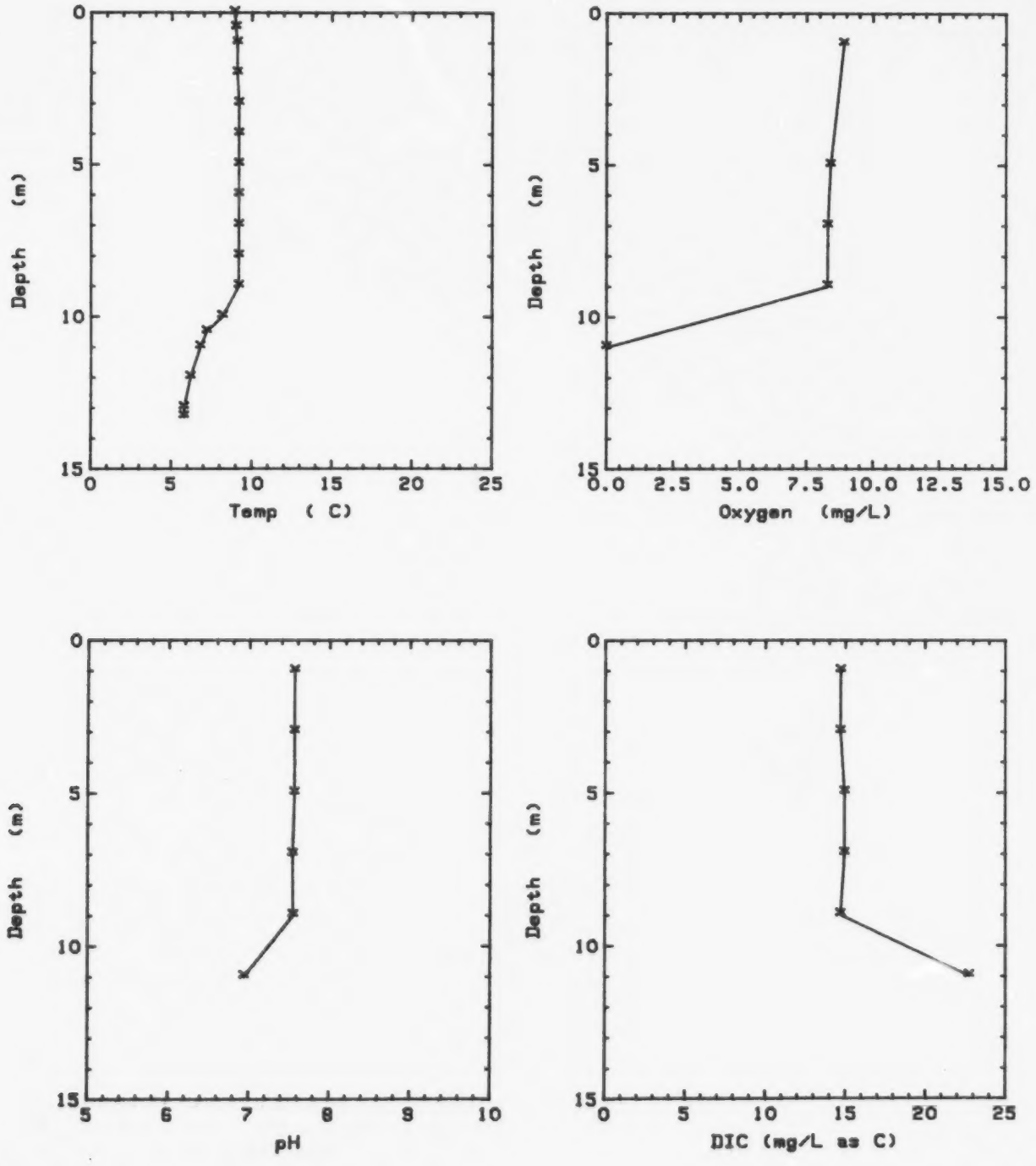


Figure 65

GLEN 84.11.06



Figures 66-85 - GULLFEATHER

Figure 66

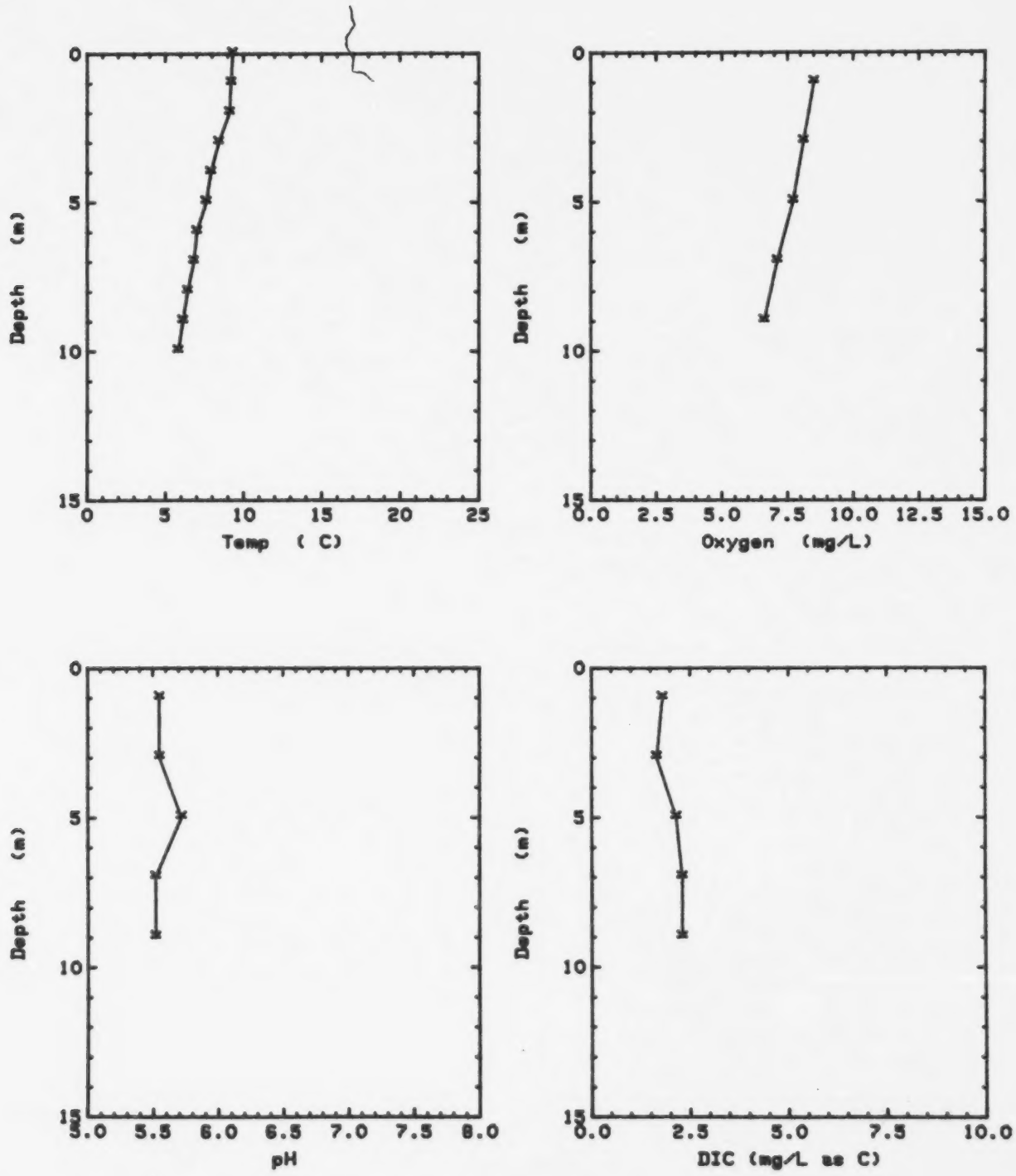


Figure 67

GULLFEATHER 82.06.10

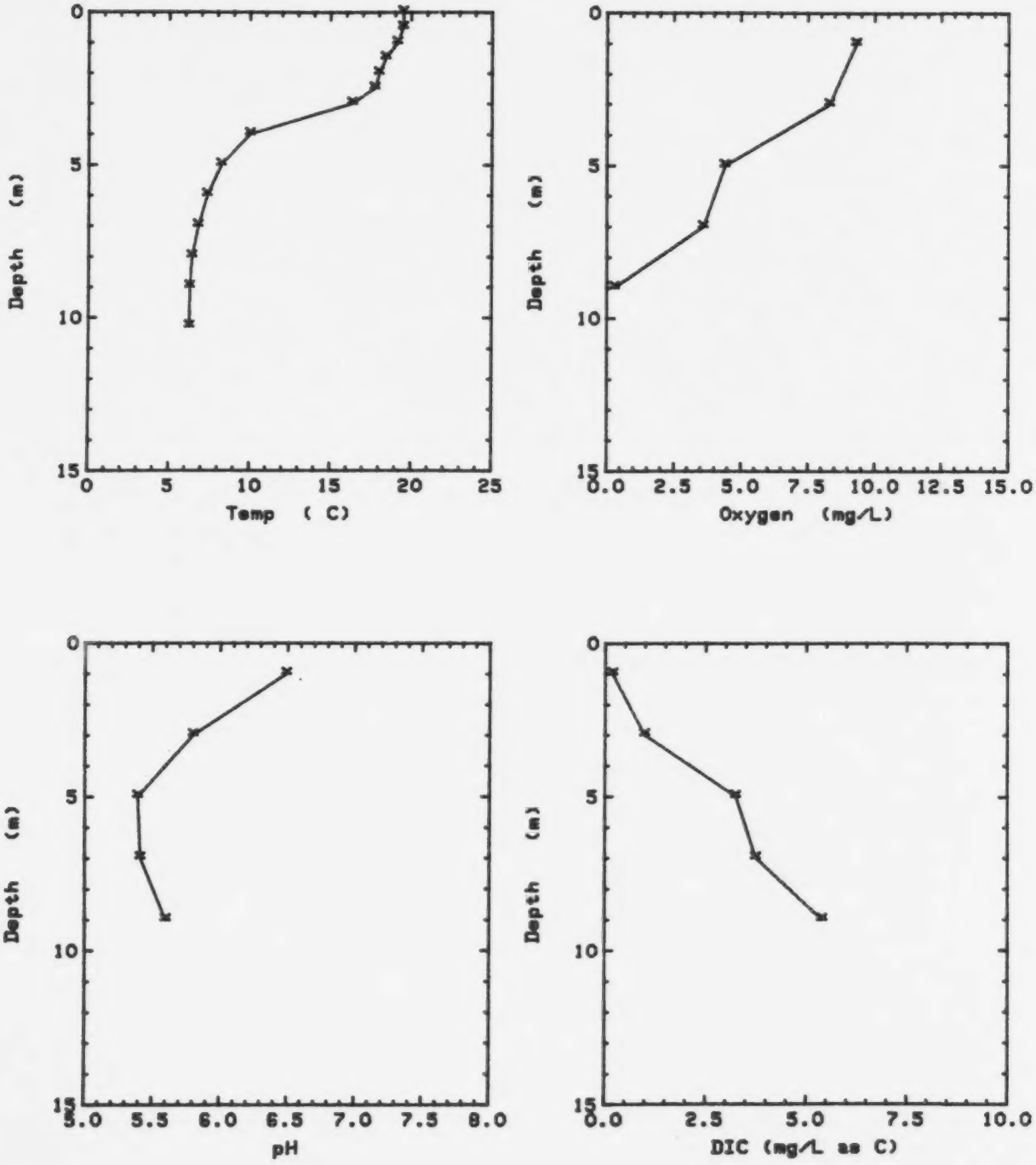


Figure 68

GULLFEATHER 82.07.05

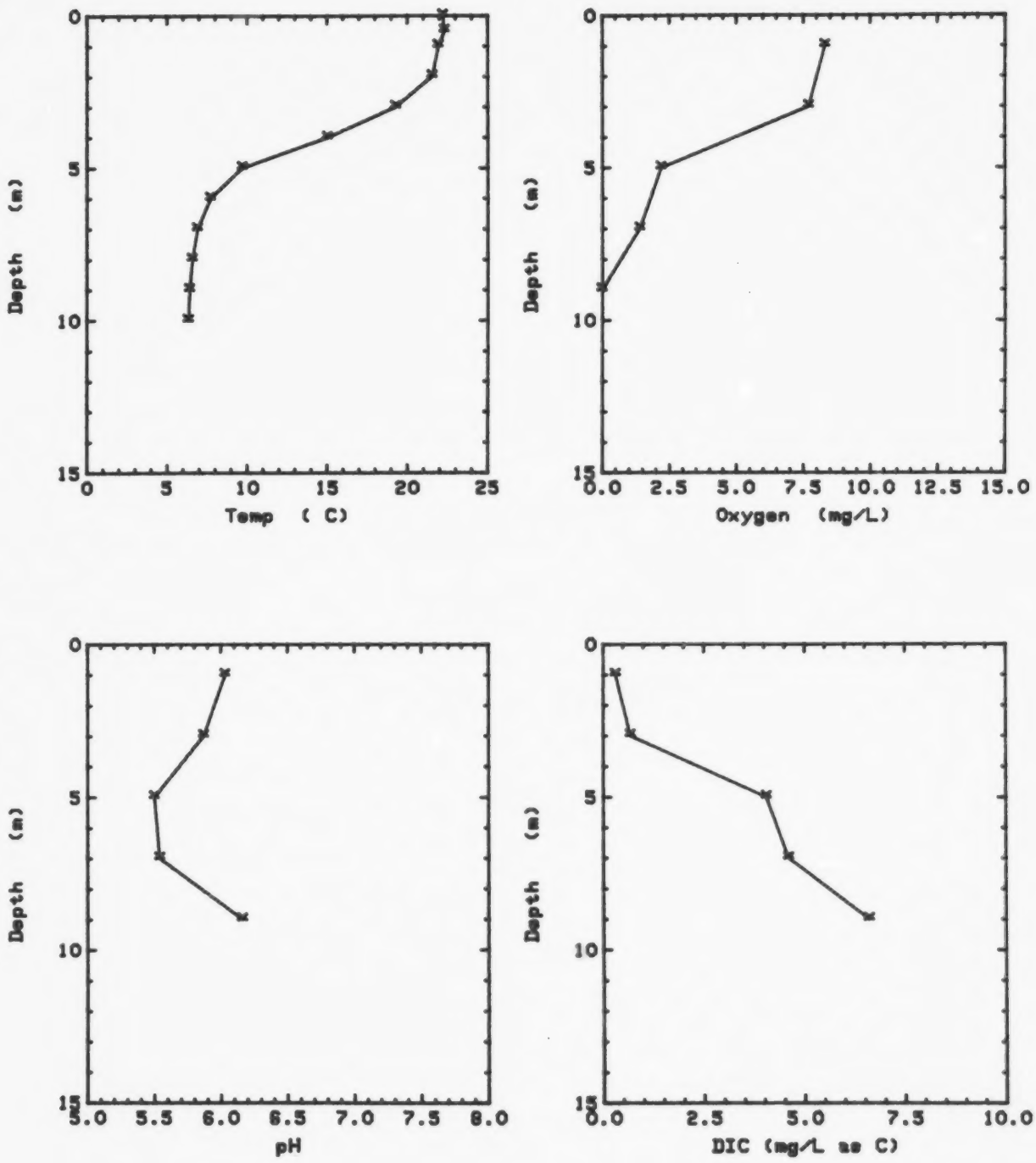


Figure 69

GULLFEATHER 82.08.04

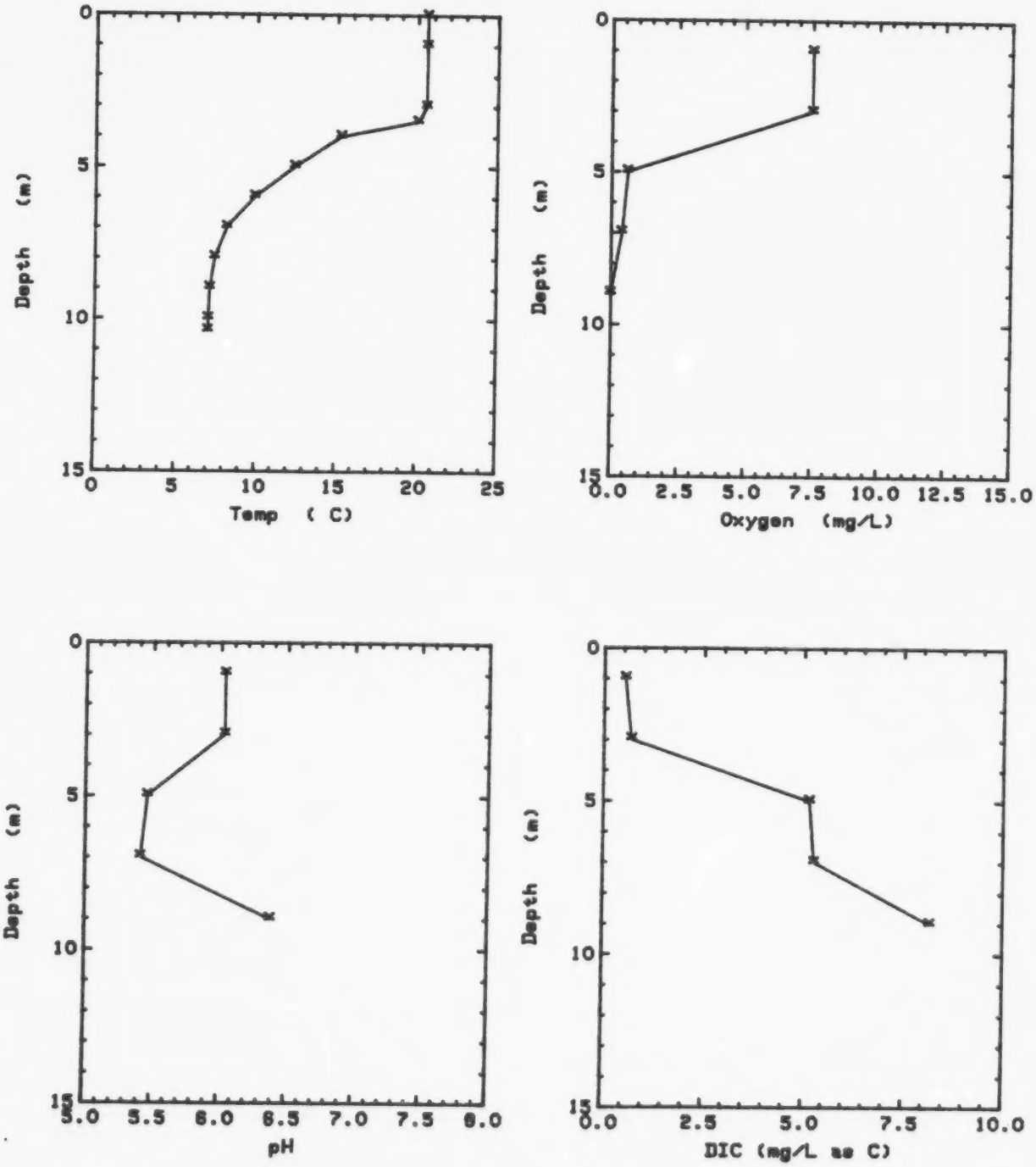


Figure 70

GULLFEATHER 82.08.31

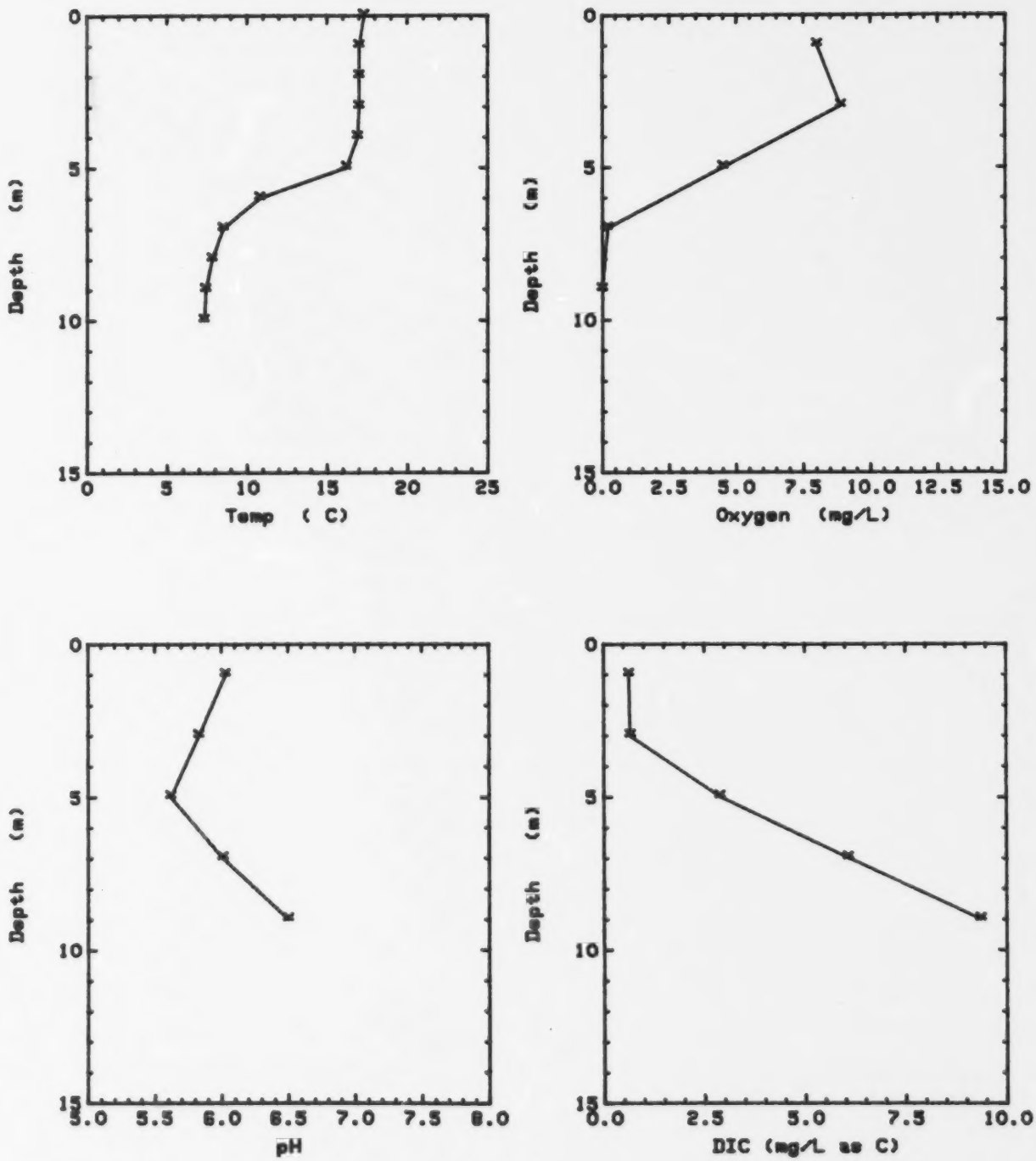


Figure 71

GULLFEATHER 82.09.29

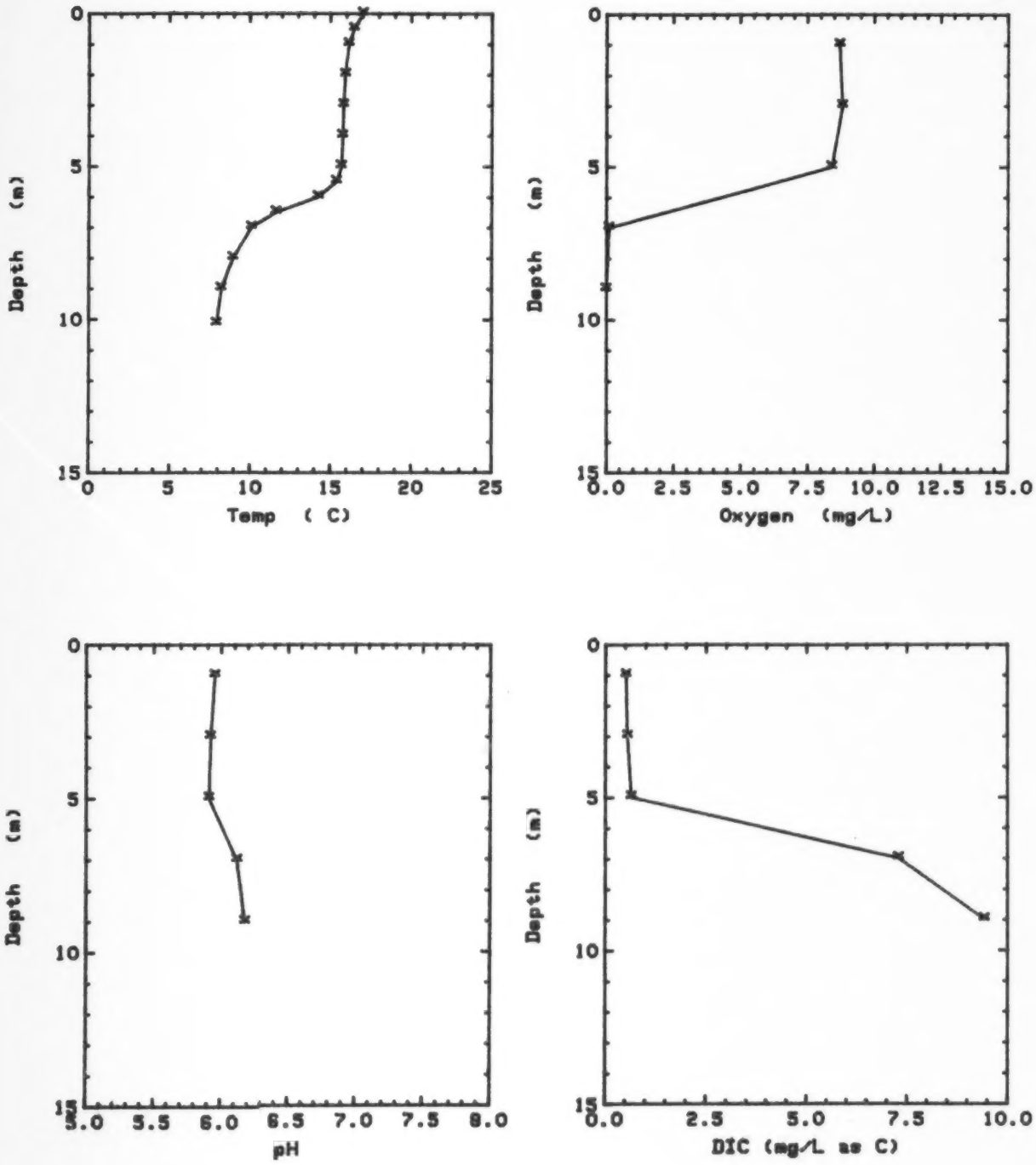


Figure 72

GULLFEATHER 82.11.02

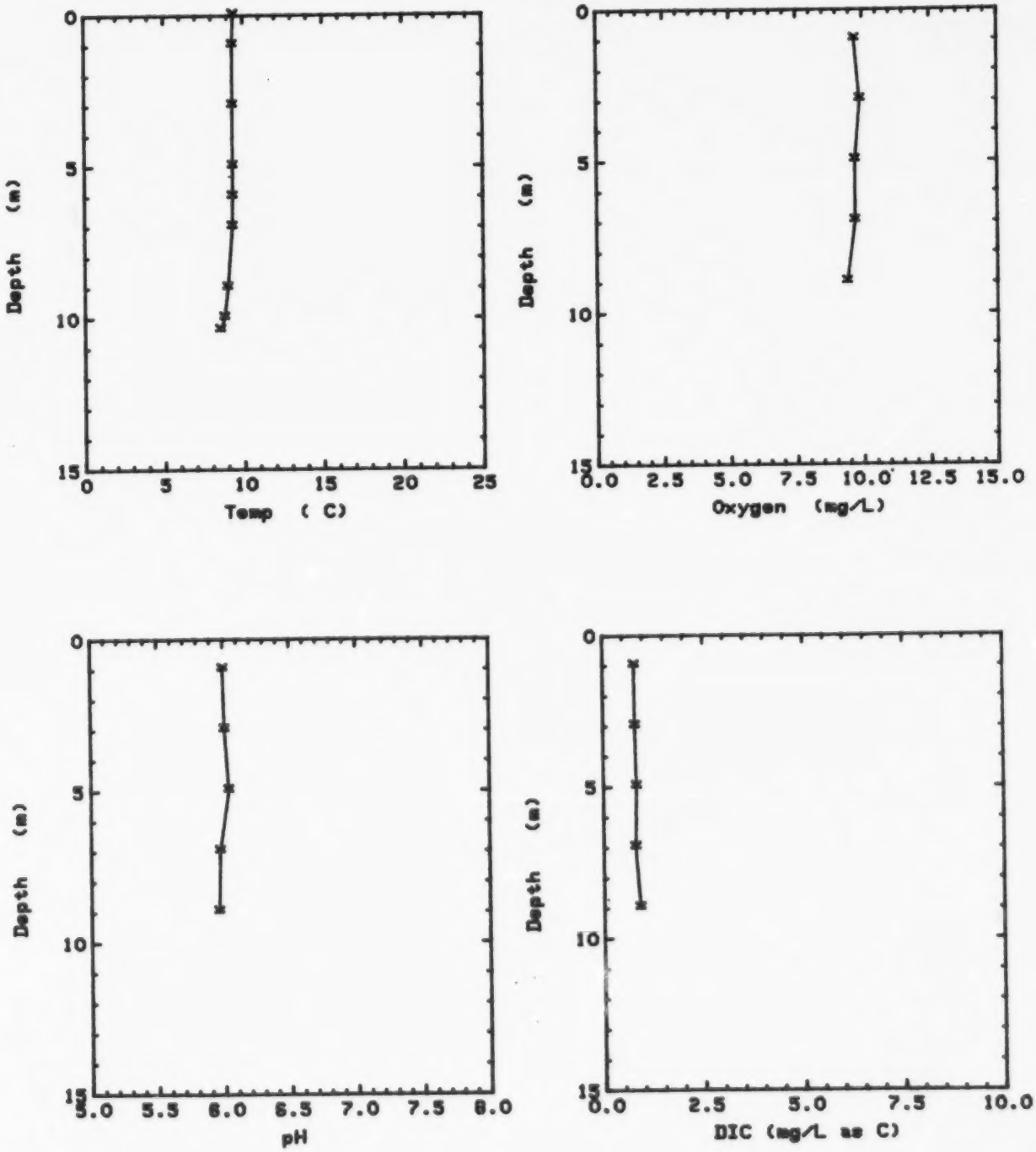


Figure 73

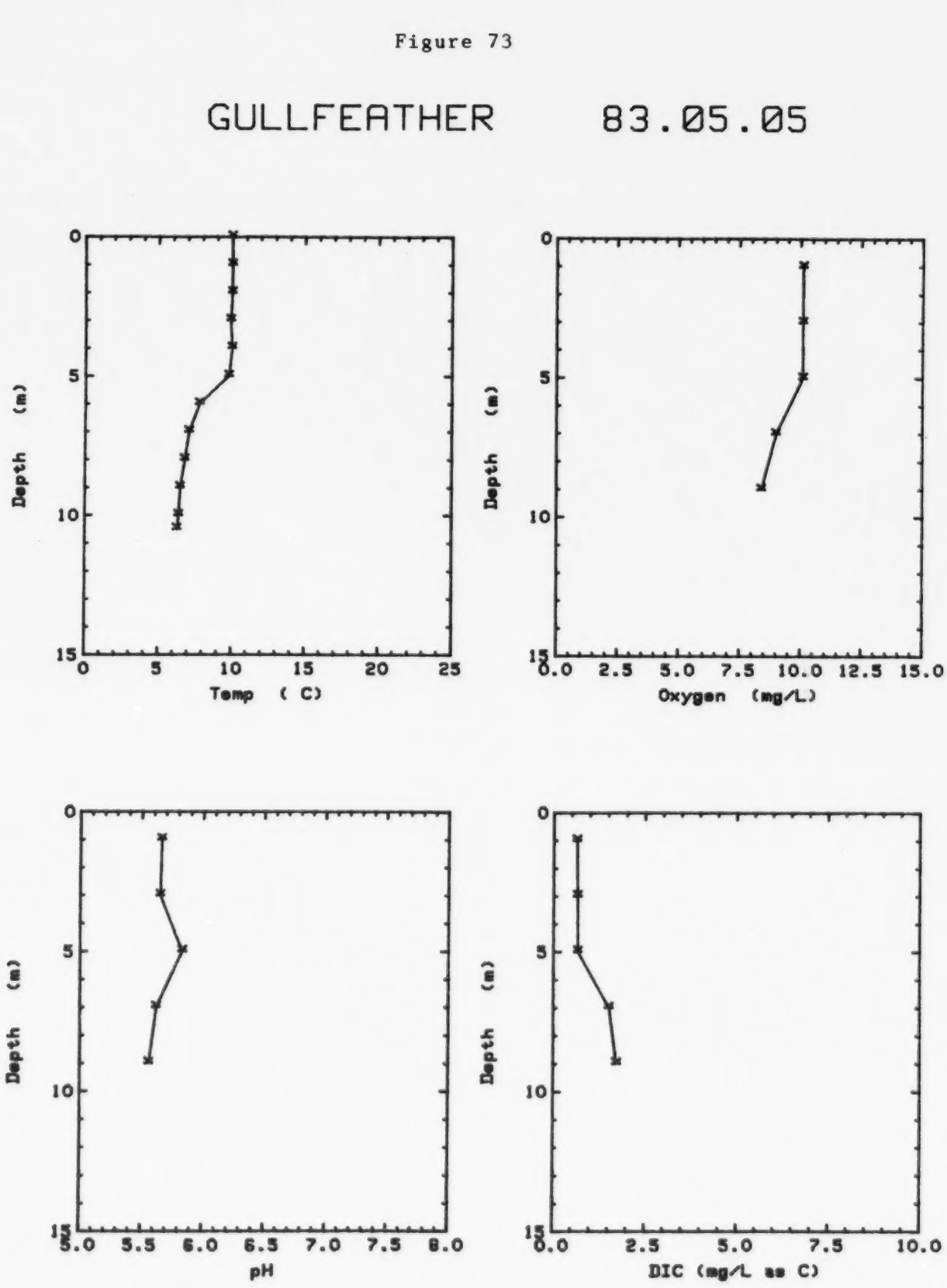

GULLFEATHER 83.05.05
Depth (m)
0
5
10
15
0 5 10 15 20 25
Temp (C)
0.0 2.5 5.0 7.5 10.0 12.5 15.0
Oxygen (mg/L)
5.0 5.5 6.0 6.5 7.0 7.5 8.0
pH
0.0 2.5 5.0 7.5 10.0
DIC (mg/L as C)

Figure 74

GULLFEATHER 83.05.26

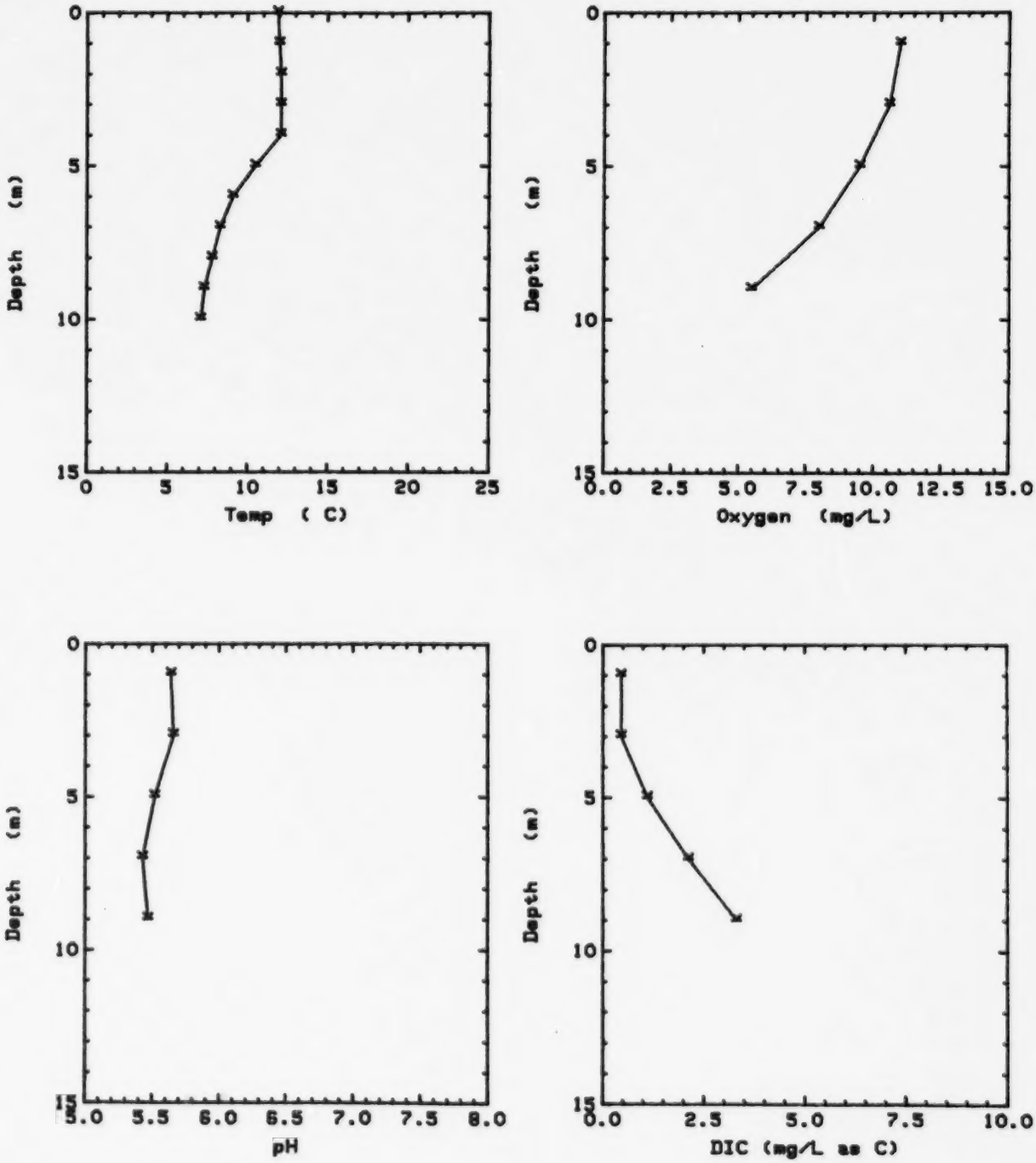


Figure 75

GULLFEATHER 83.06.23

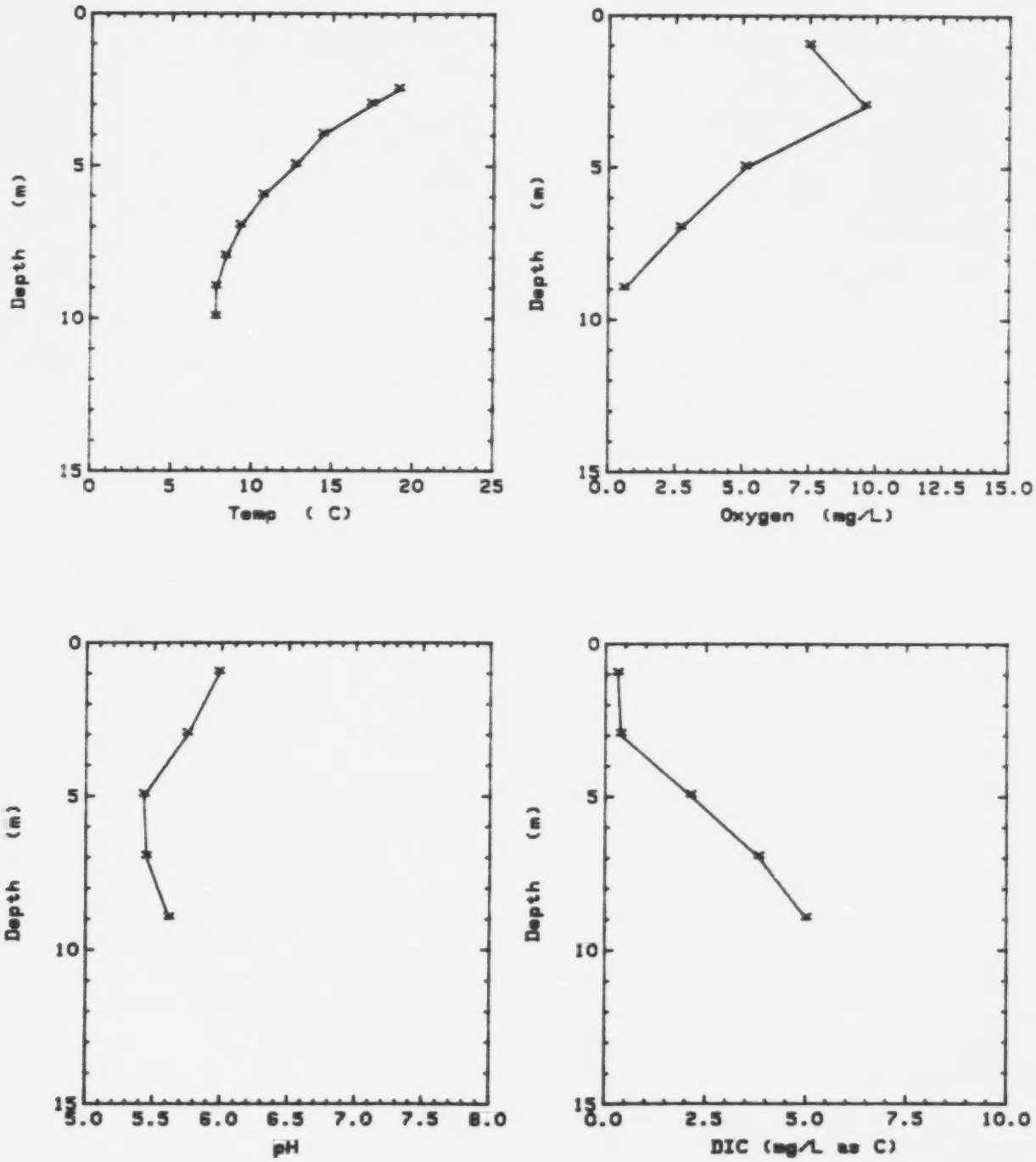


Figure 76

GULLFEATHER 83.07.19

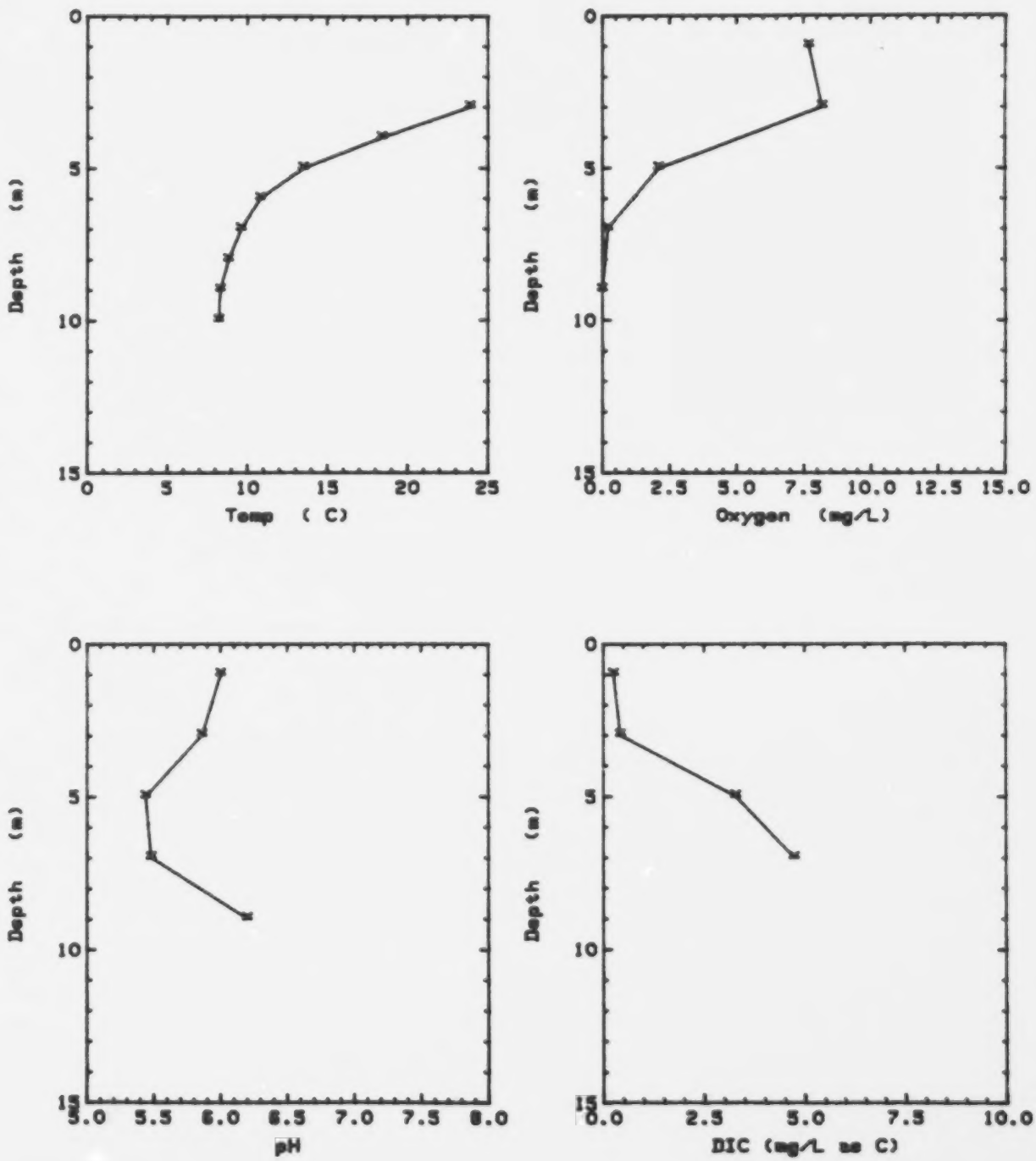


Figure 77

GULLFEATHER 83.08.18

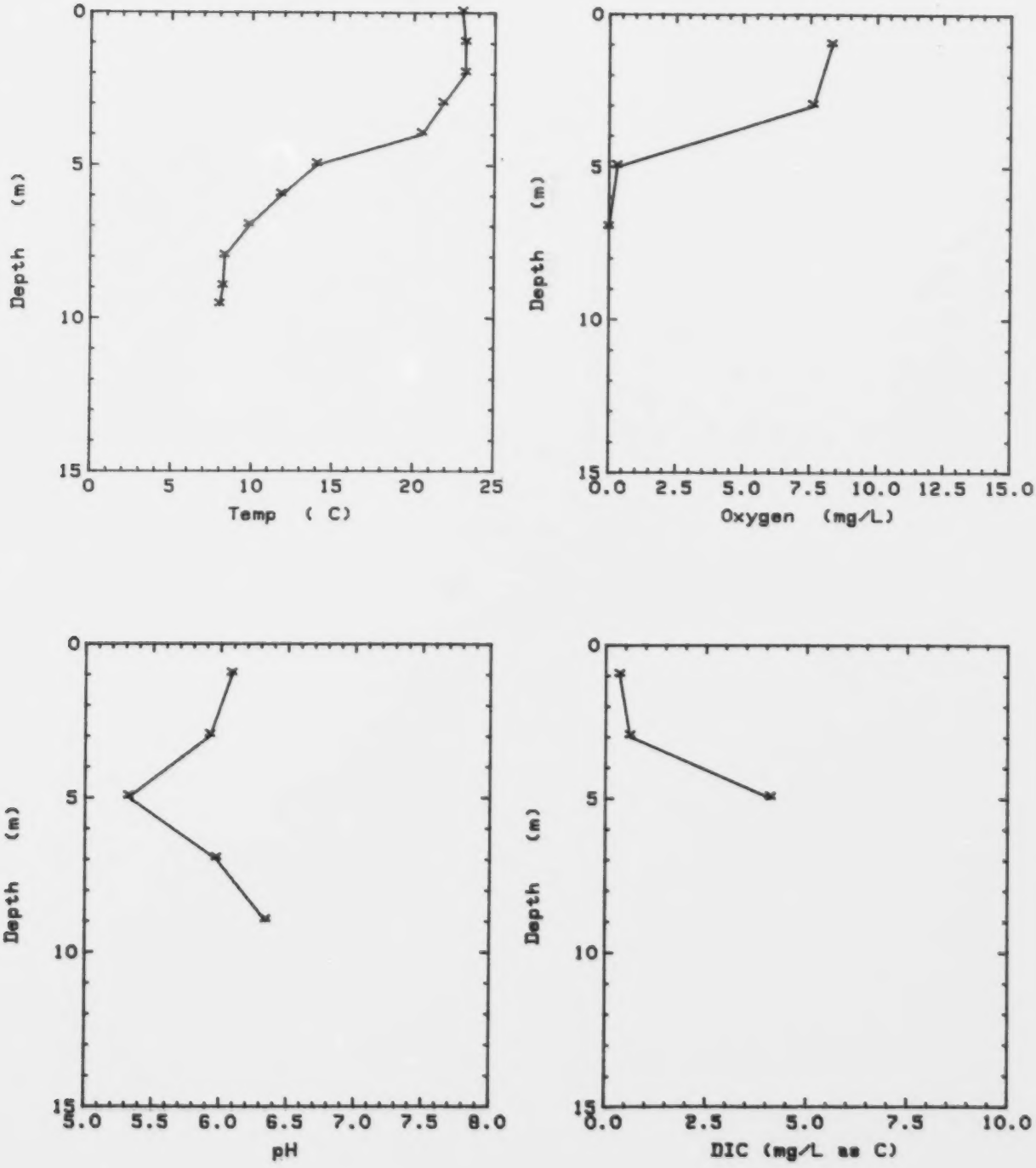


Figure 78

GULLFEATHER 83.10.27

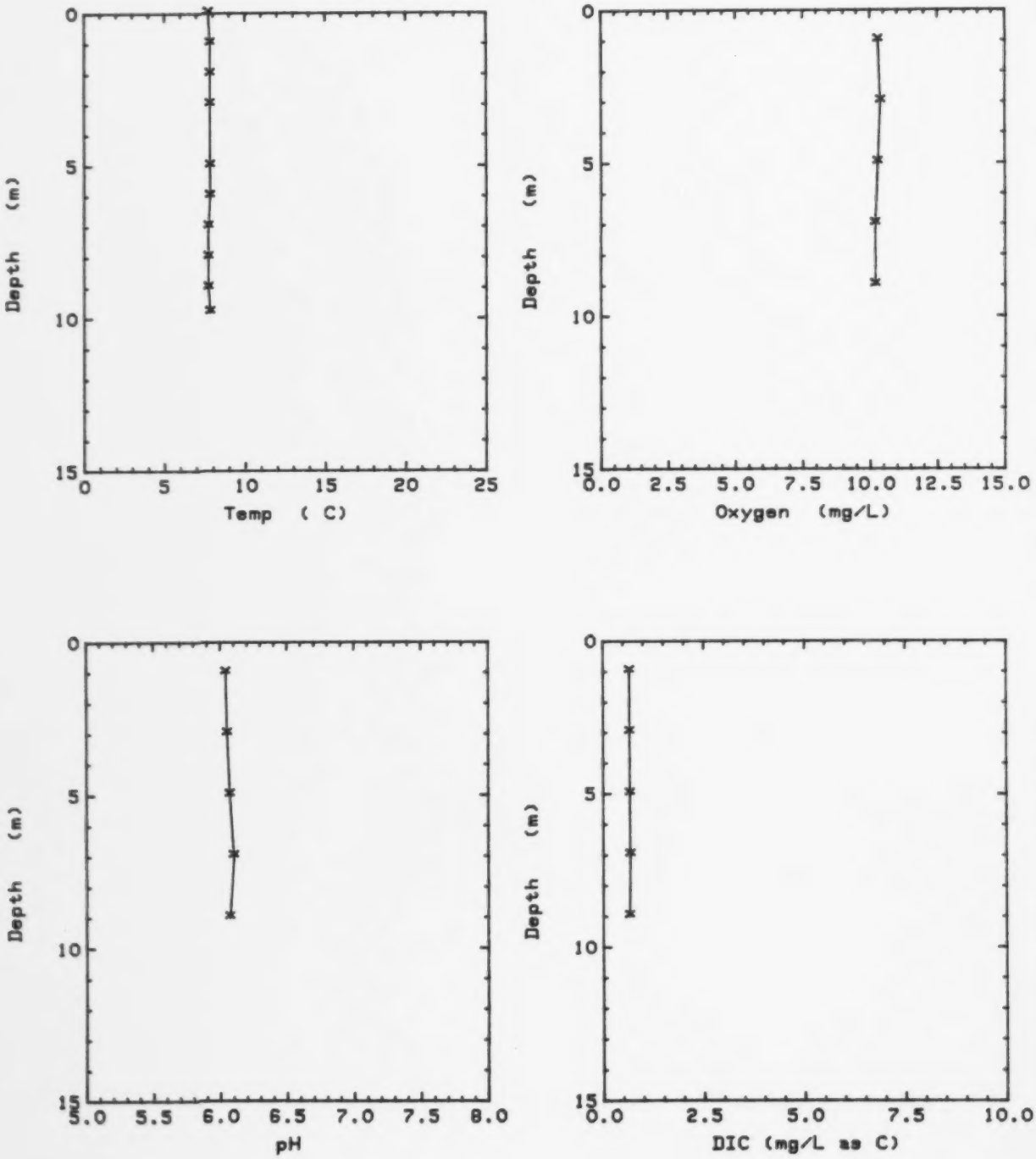


Figure 79

GULLFEATHER 84.05.01

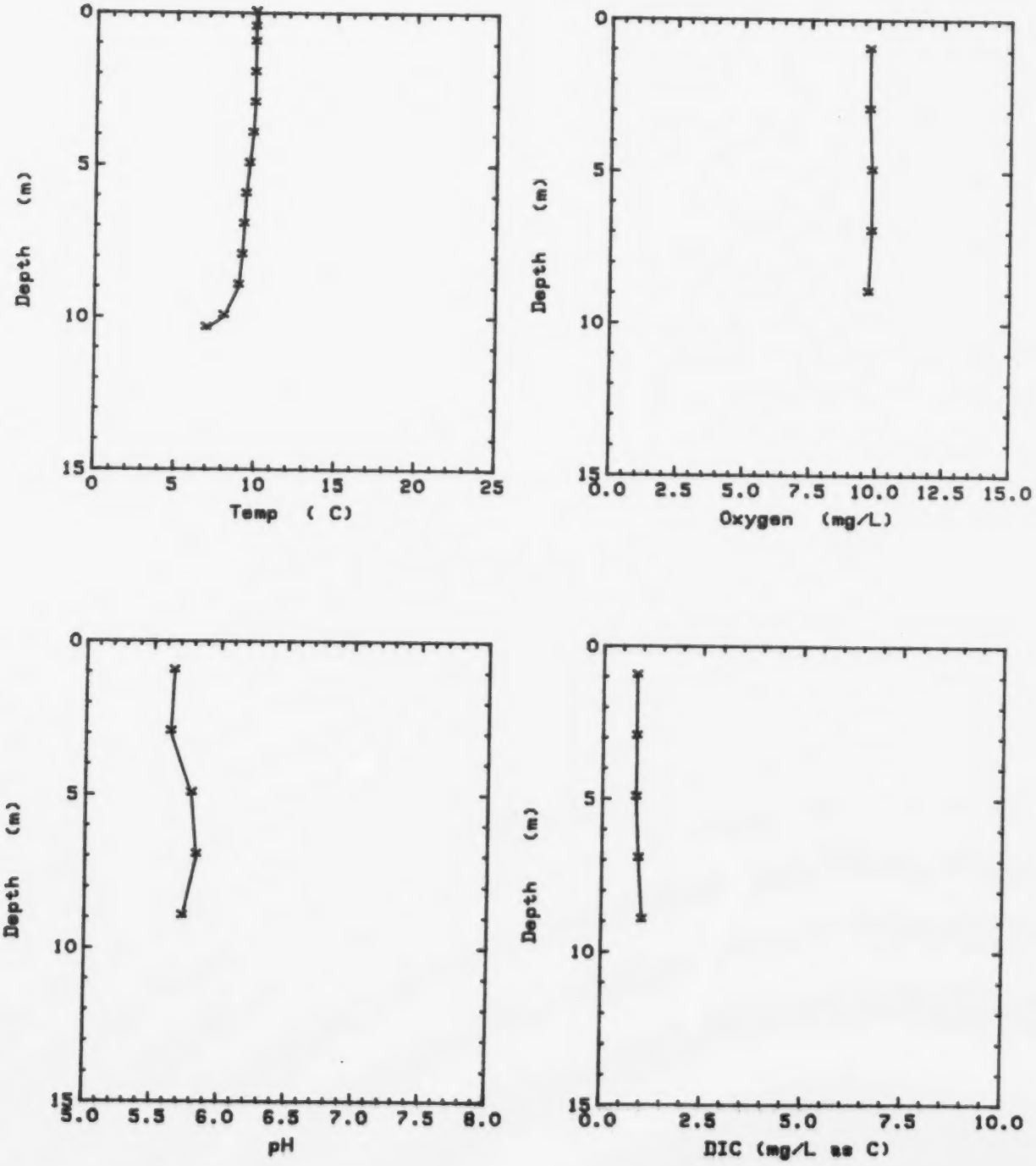


Figure 80

GULLFEATHER 84.05.31

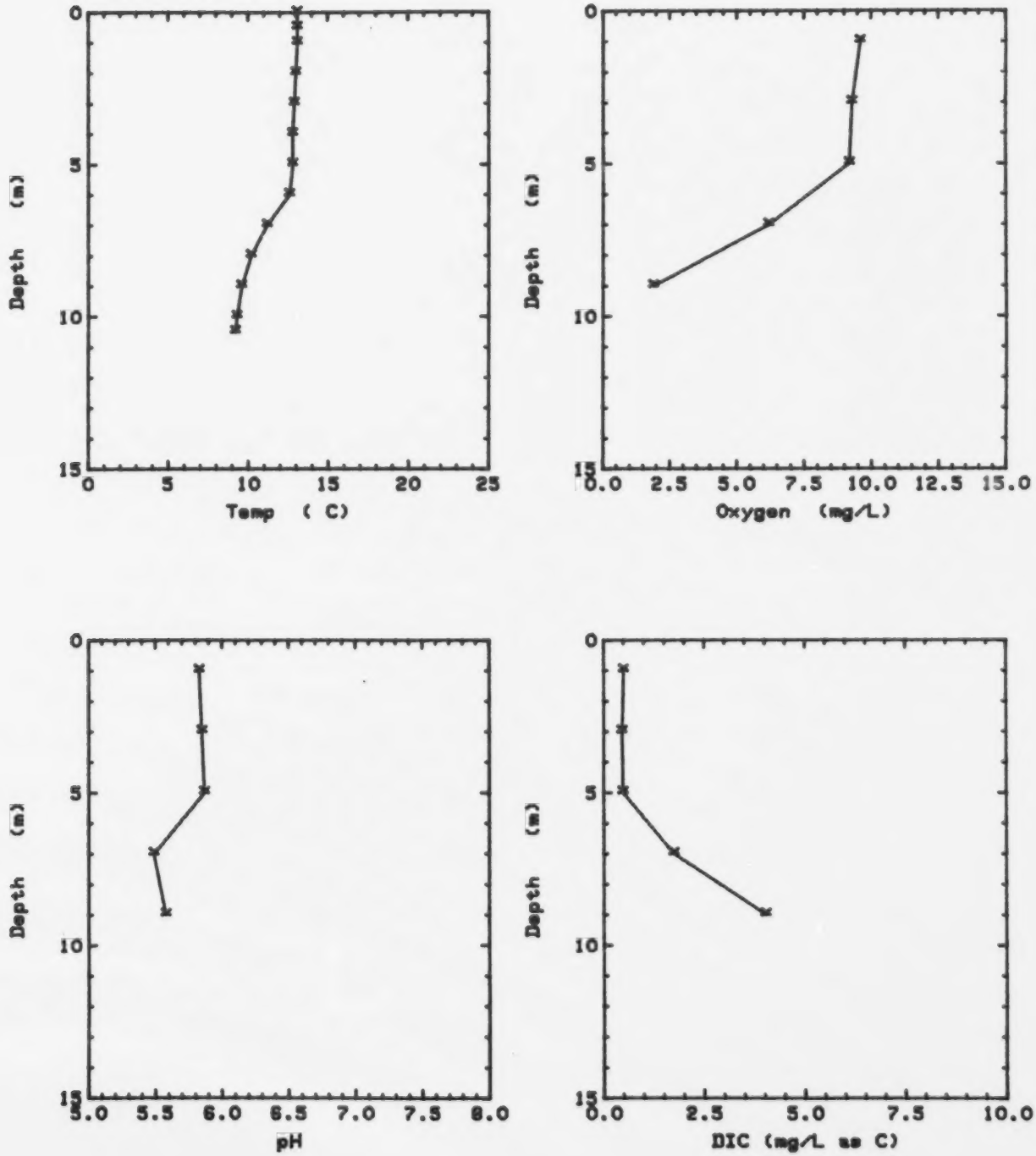


Figure 81

GULLFEATHER 84.06.28

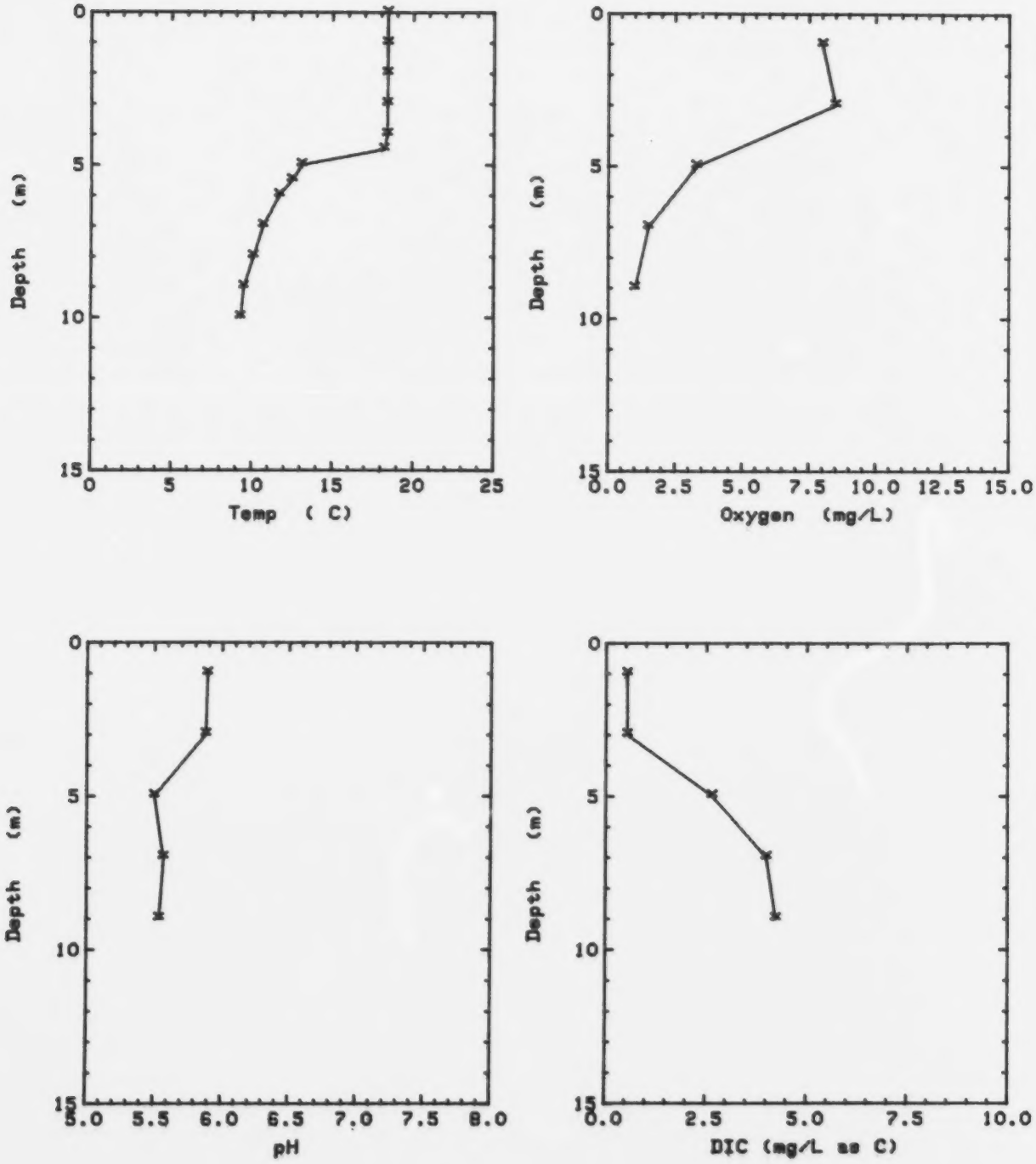
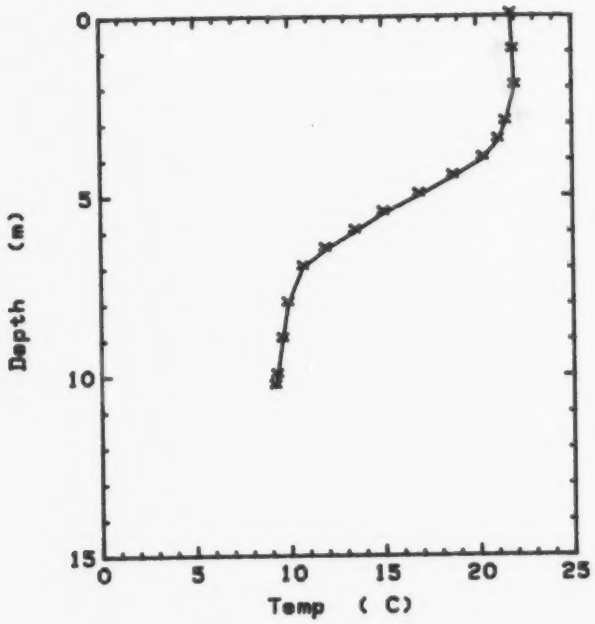
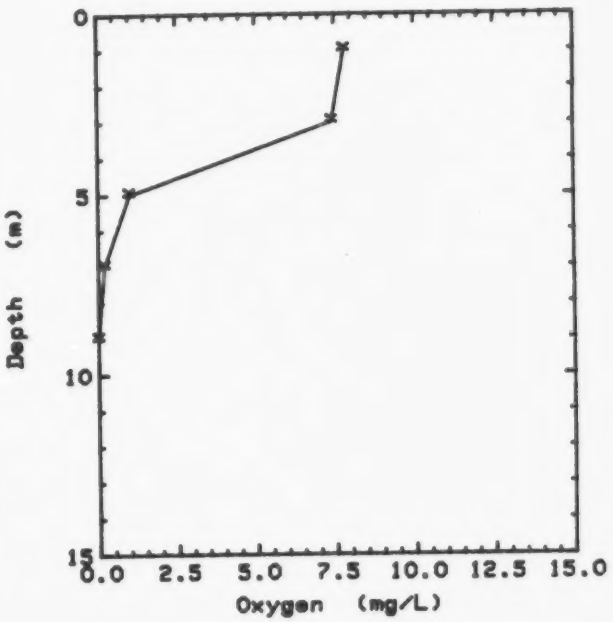
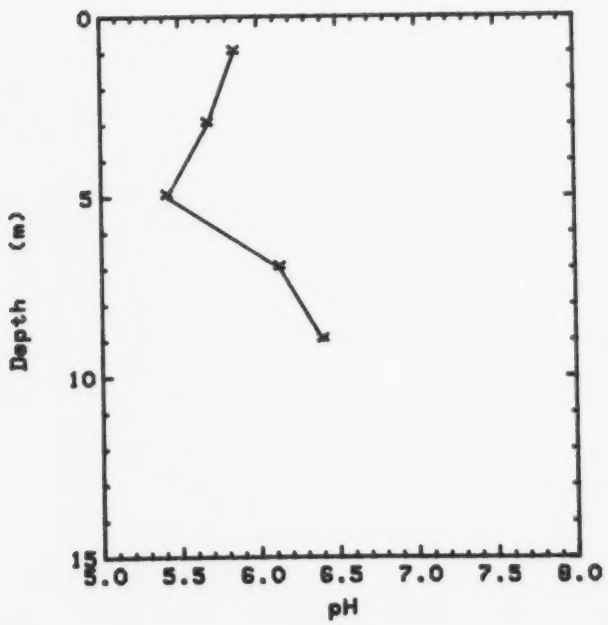


Figure 82

GULLFEATHER 84.07.26







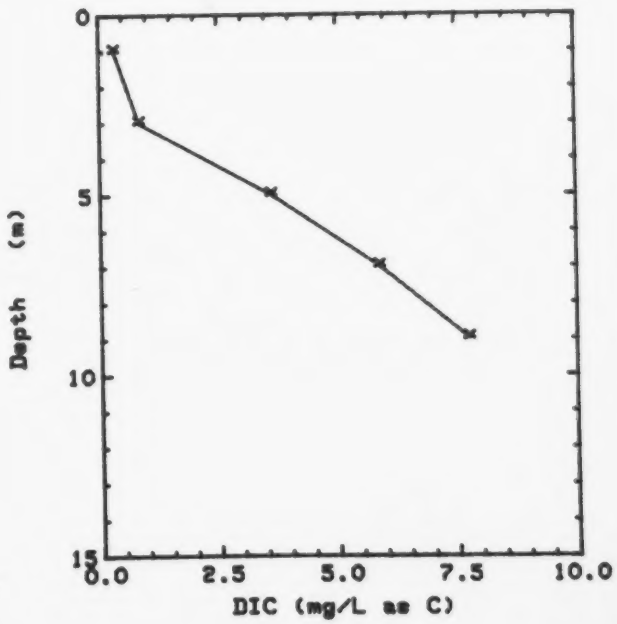
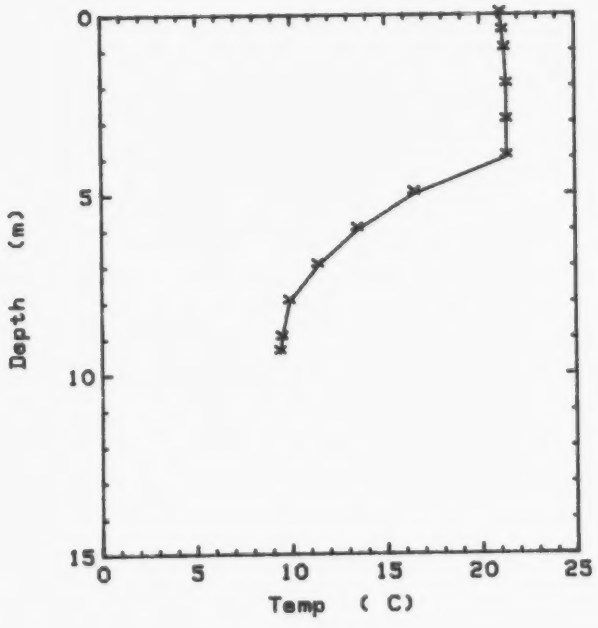
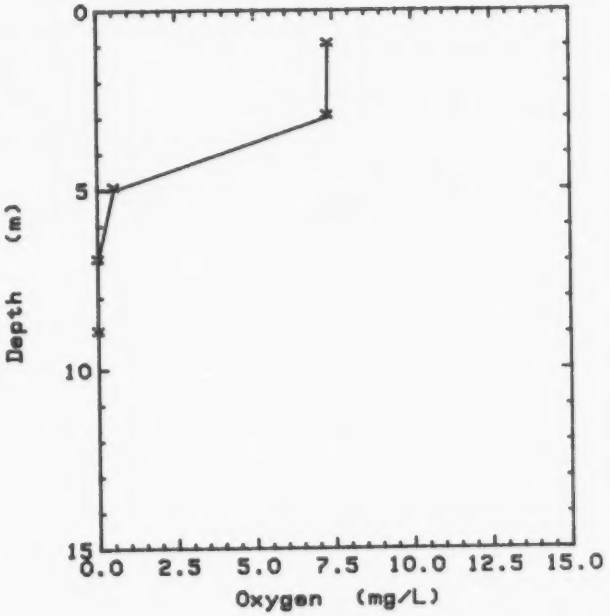
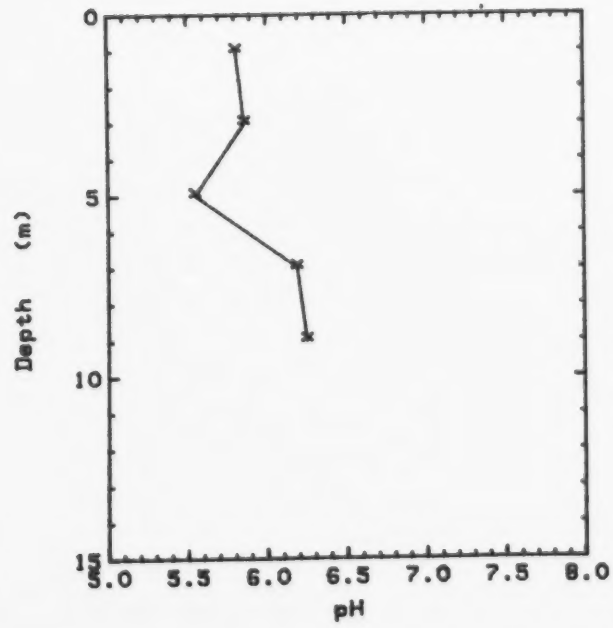


Figure 83

GULLFEATHER 84.08.23







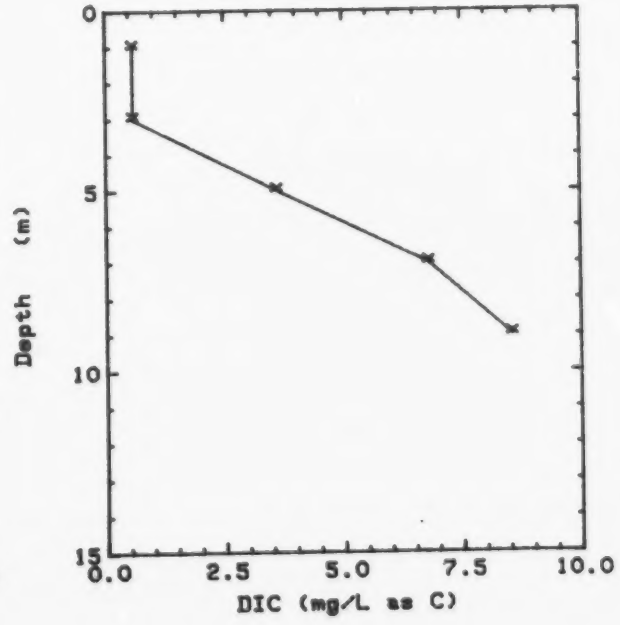
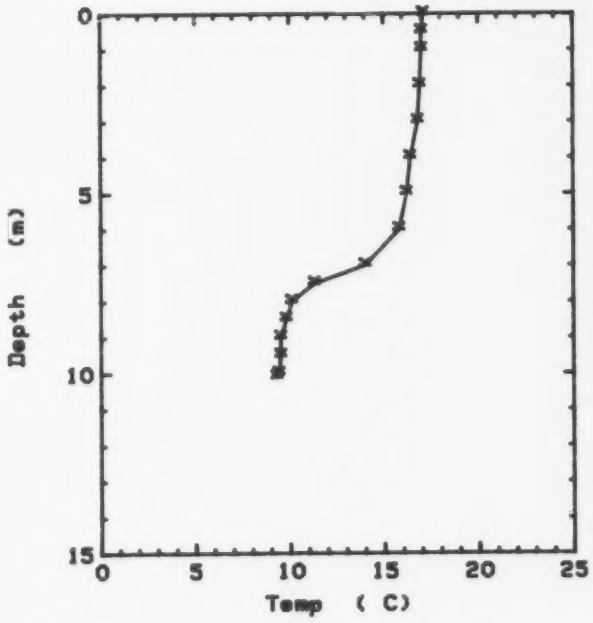
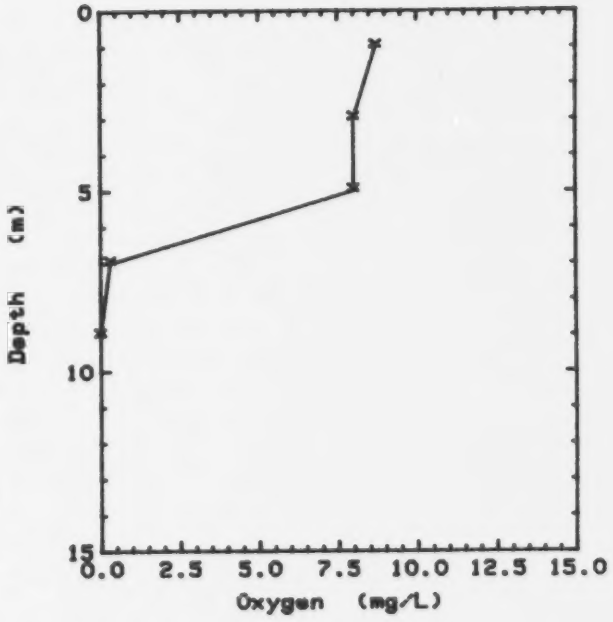
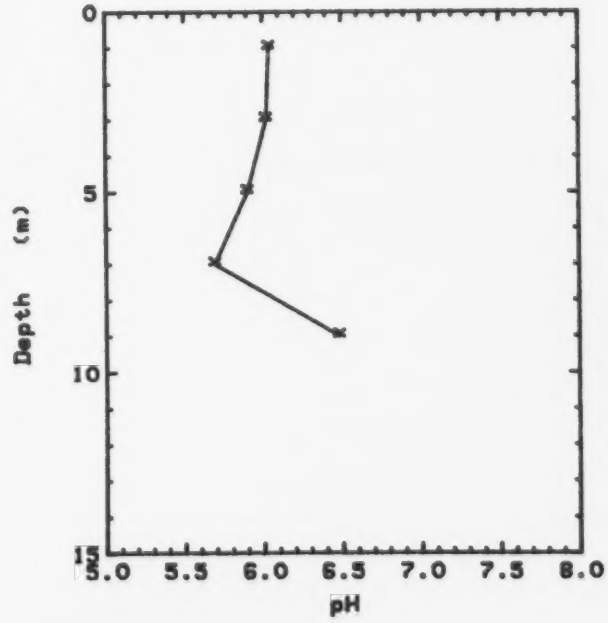


Figure 84

GULLFEATHER 84.09.20







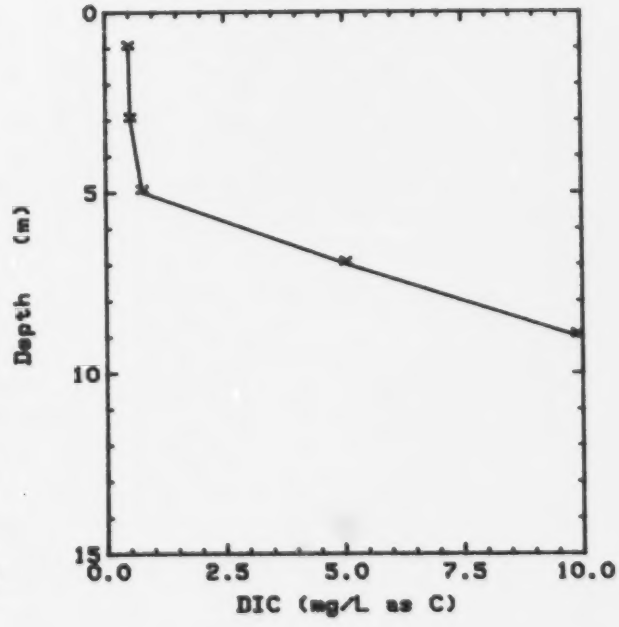
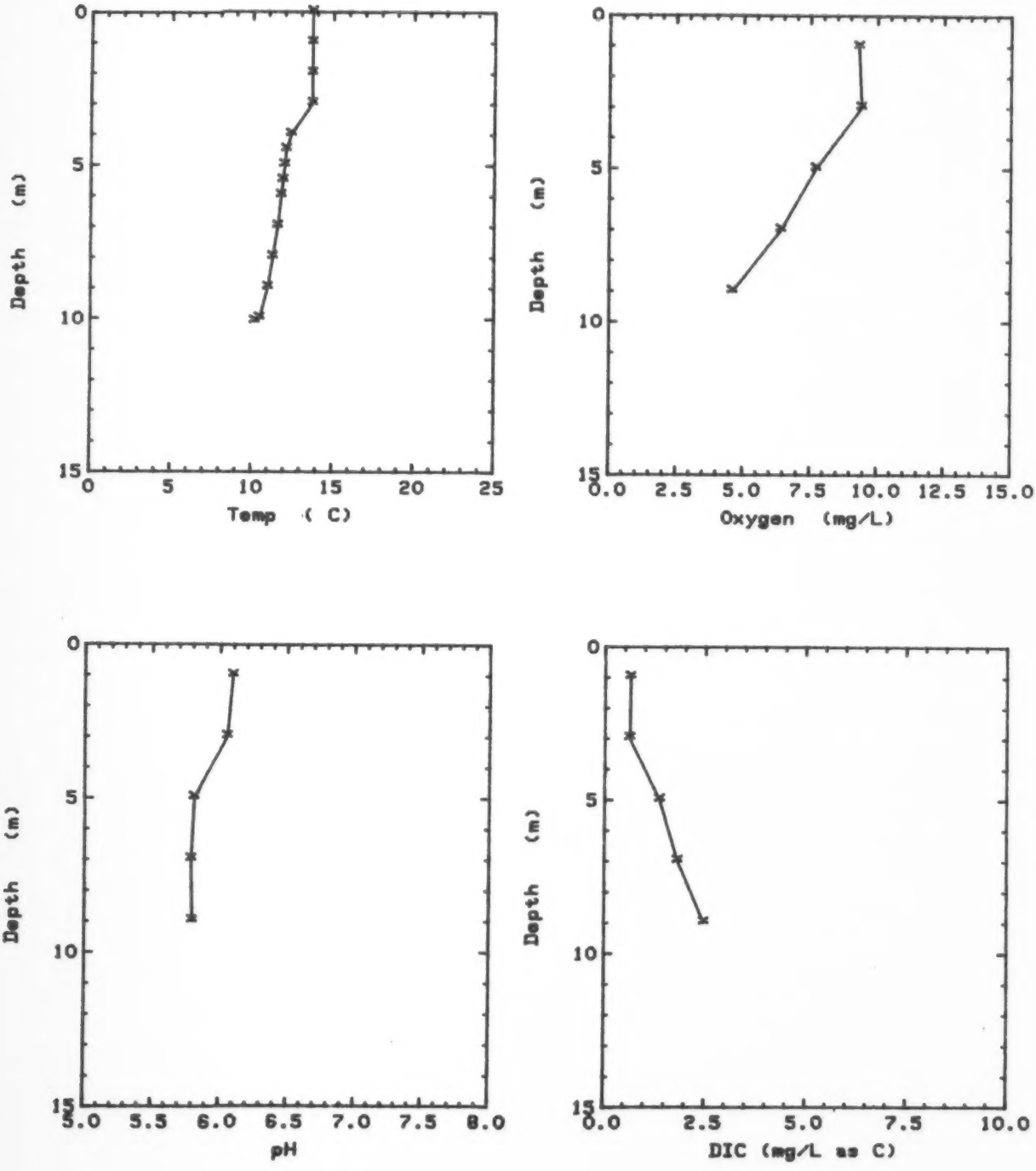


Figure 85

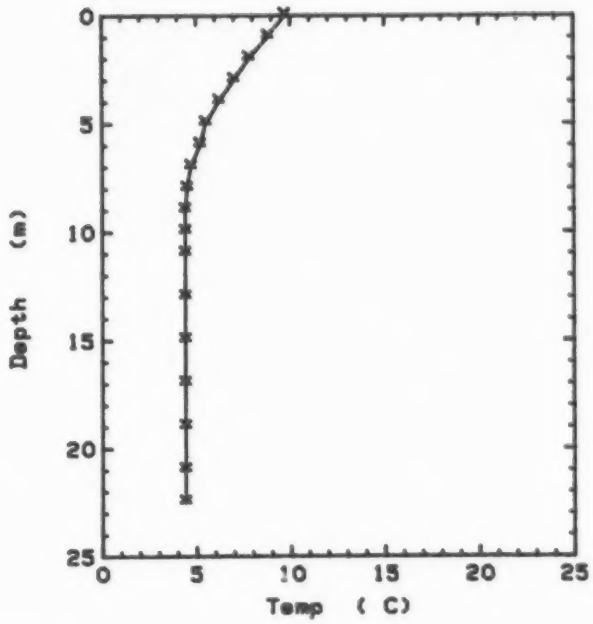
GULLFEATHER 84.10.18

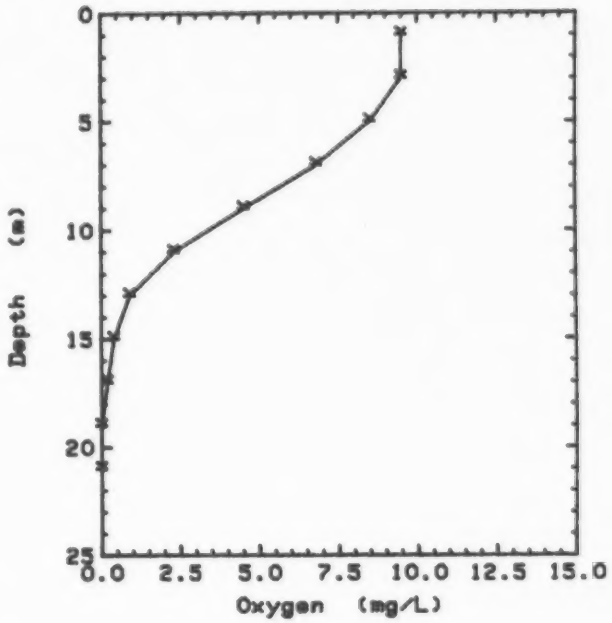


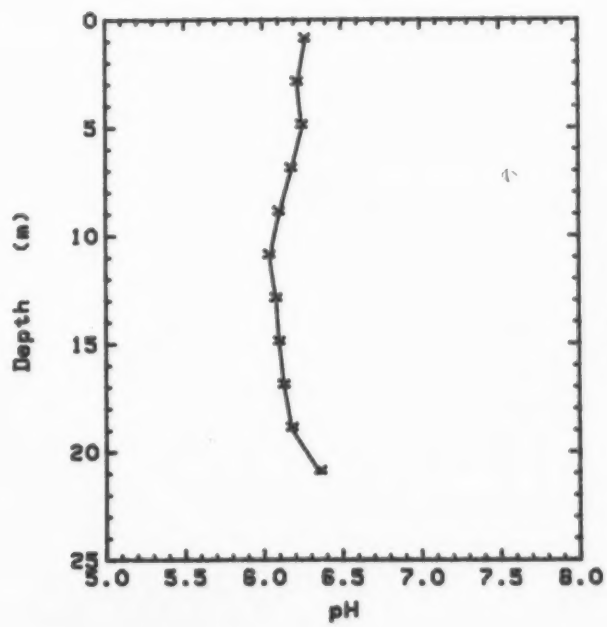
Figures 86-103 - LITTLE CLEAR

Figure 86

LITTLE CLEAR 82.05.04







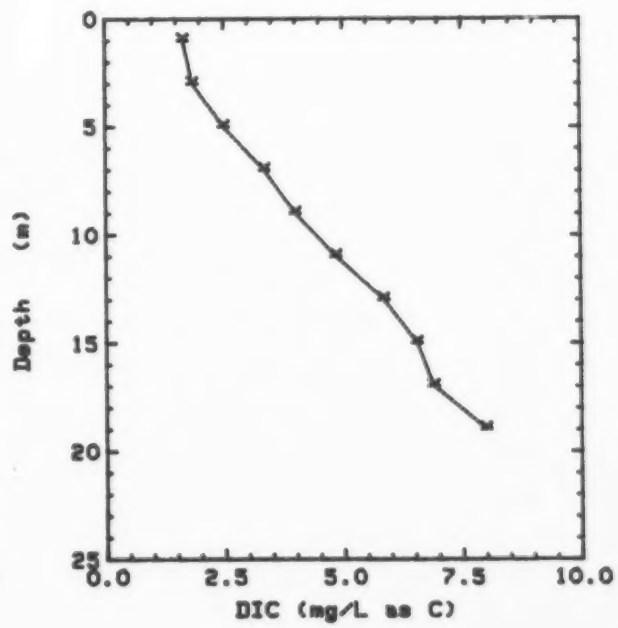


Figure 87

LITTLE CLEAR 82.06.23

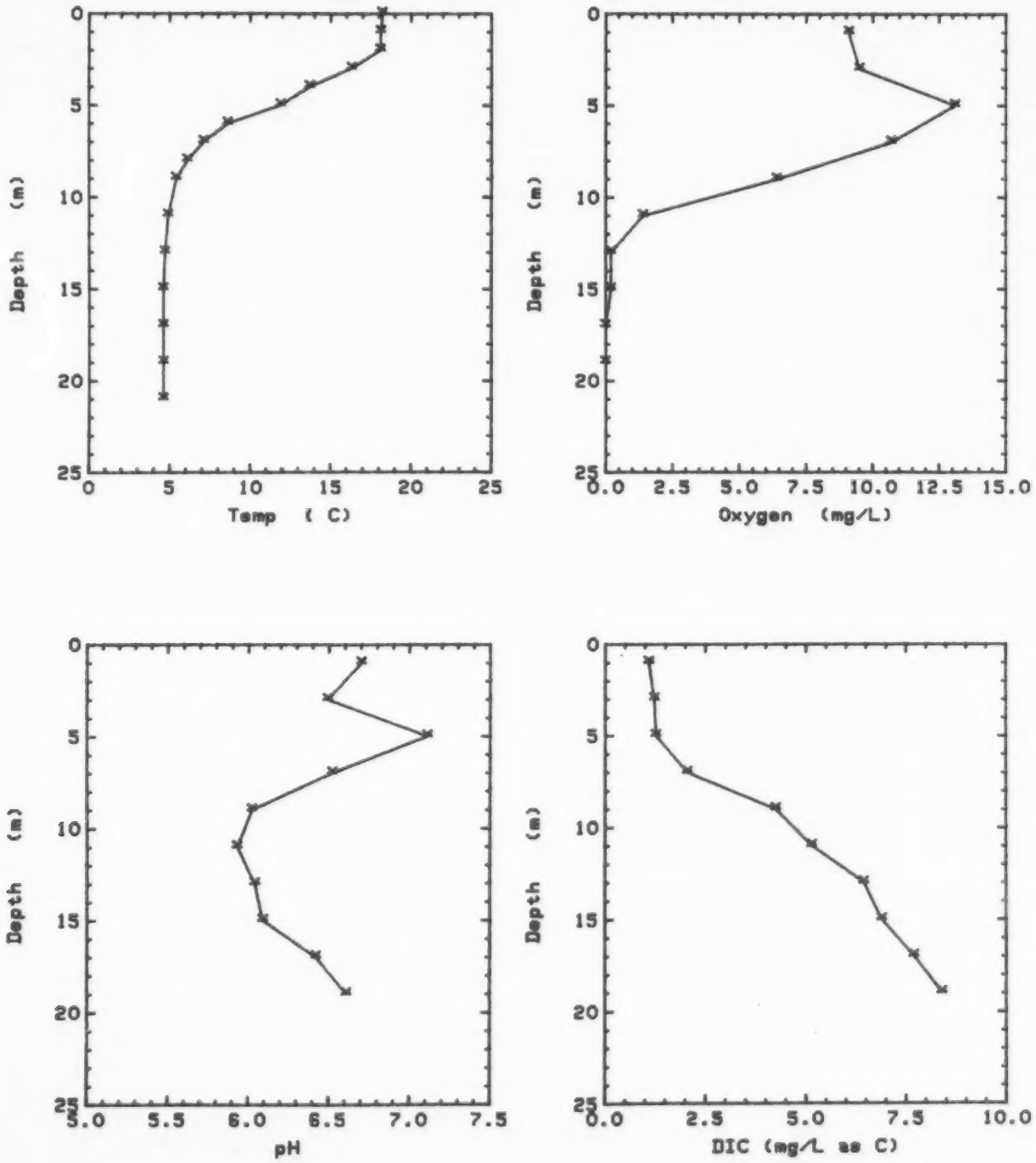
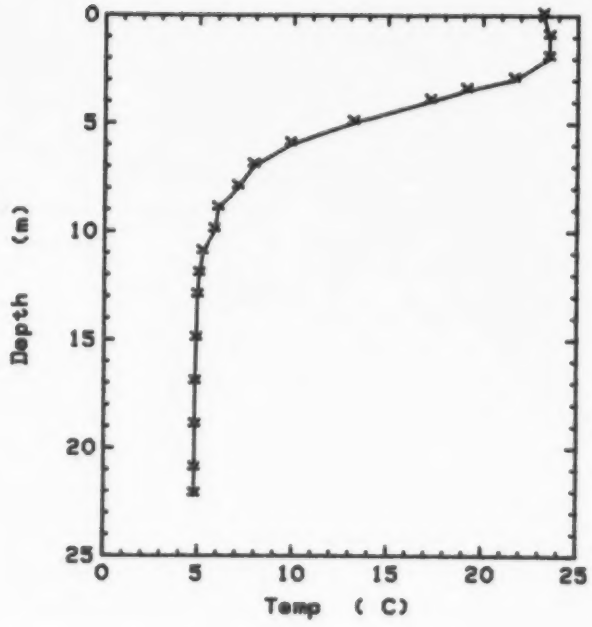
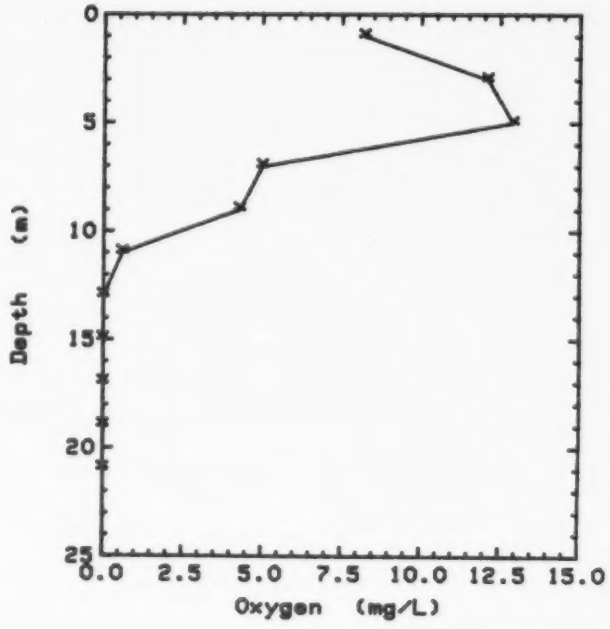
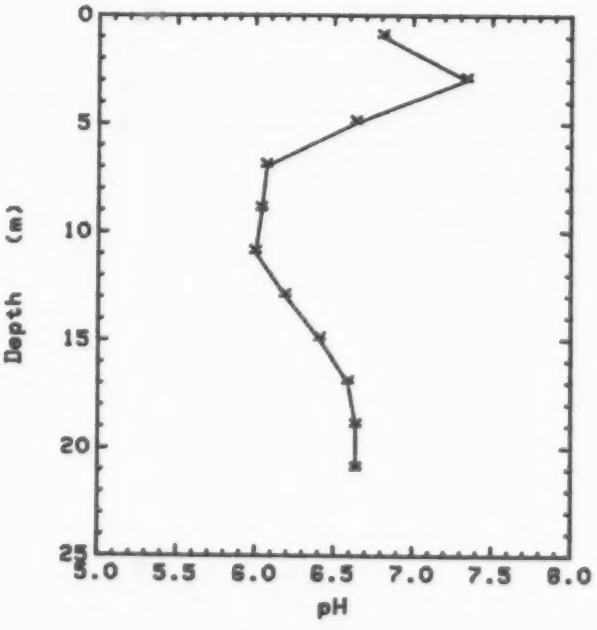


Figure 88

LITTLE CLEAR 82.07.21







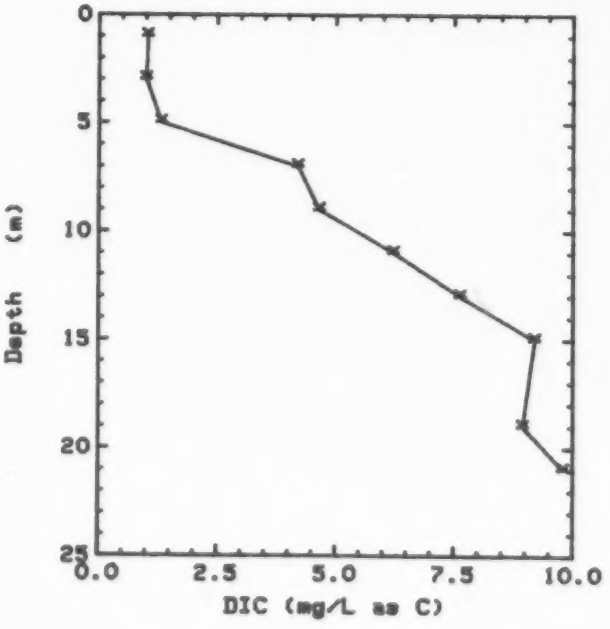


Figure 89

LITTLE CLEAR 82.08.18

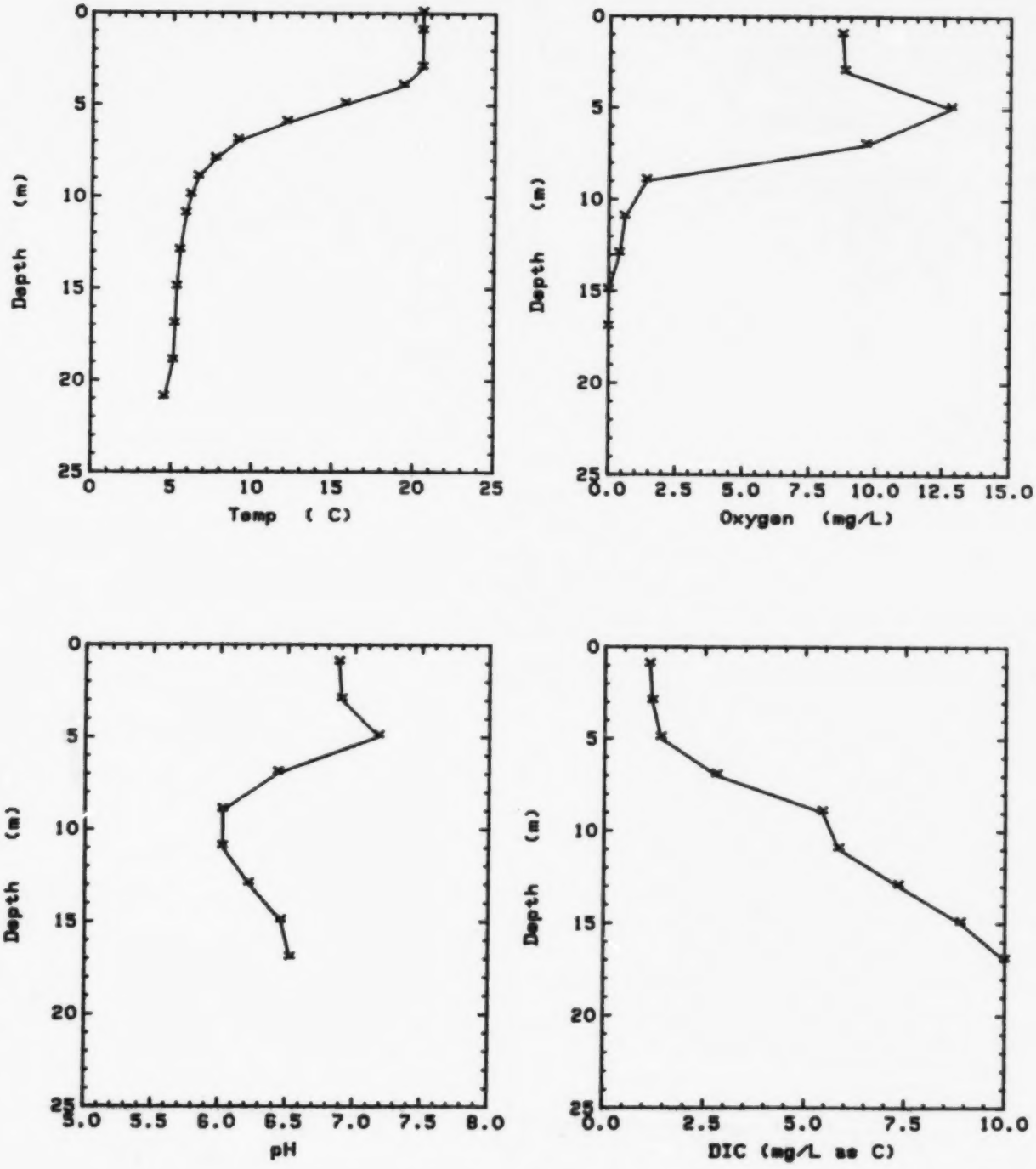


Figure 90

LITTLE CLEAR 82.09.16

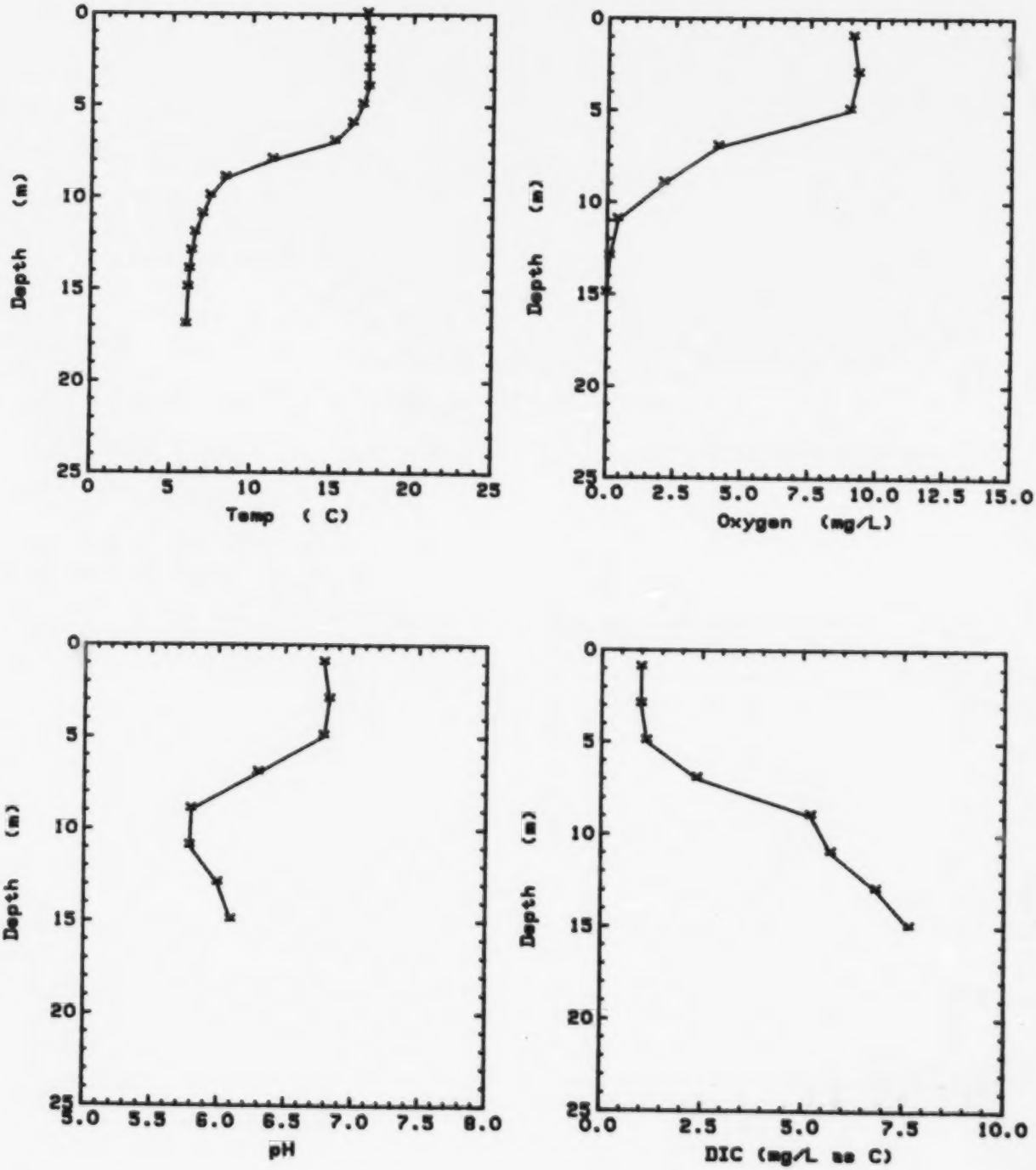


Figure 91

LITTLE CLEAR 82.10.21

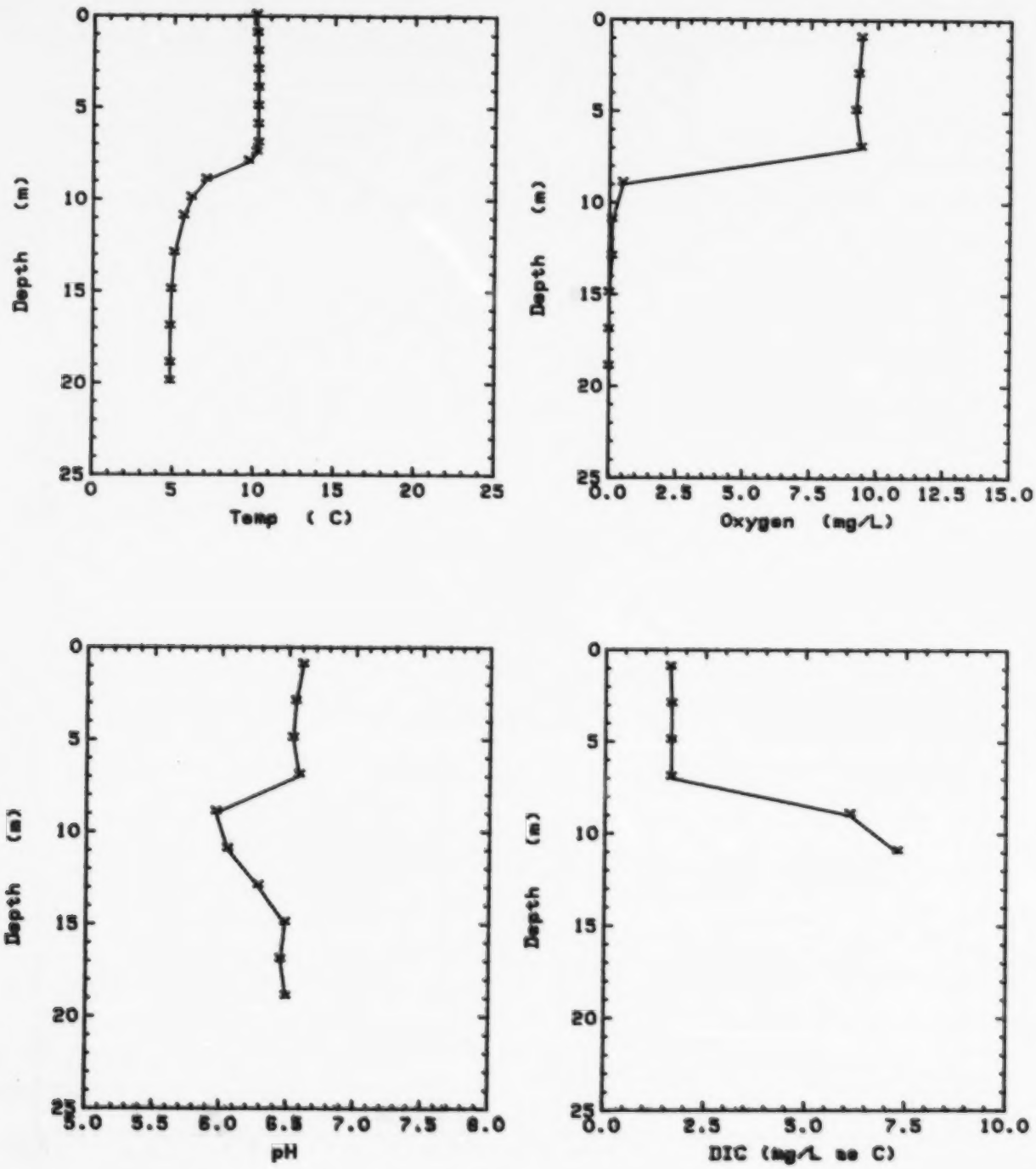
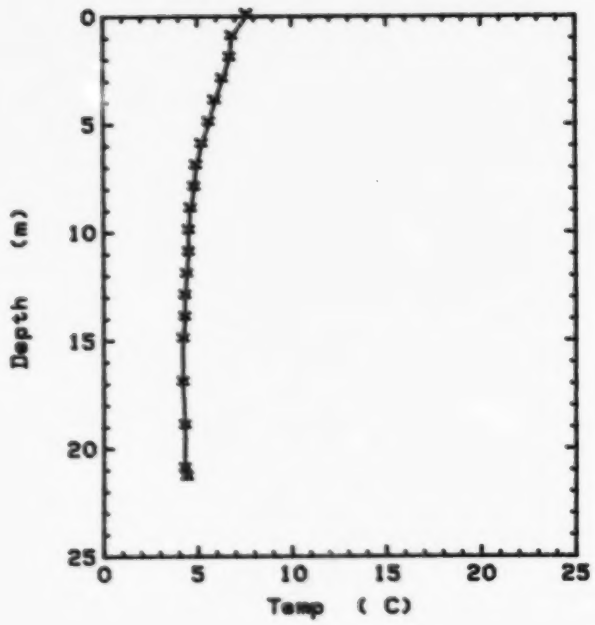
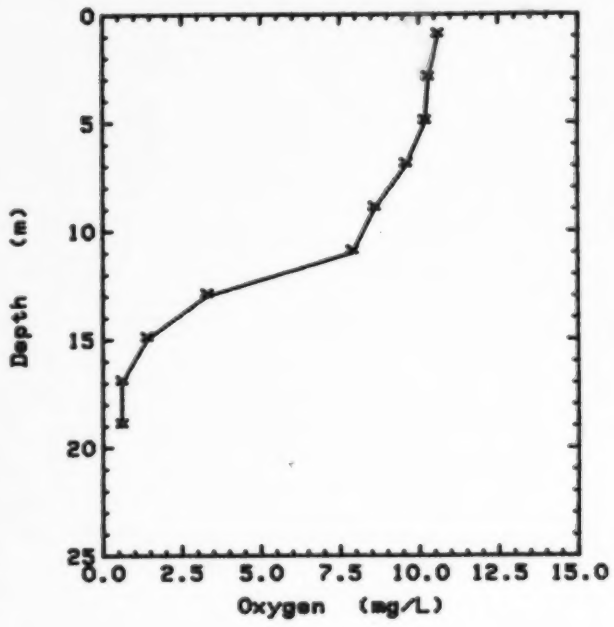
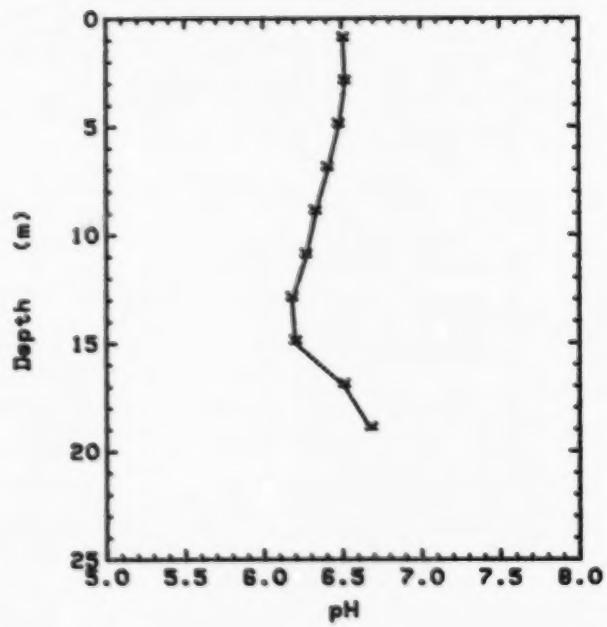


Figure 92

LITTLE CLEAR 83.04.28







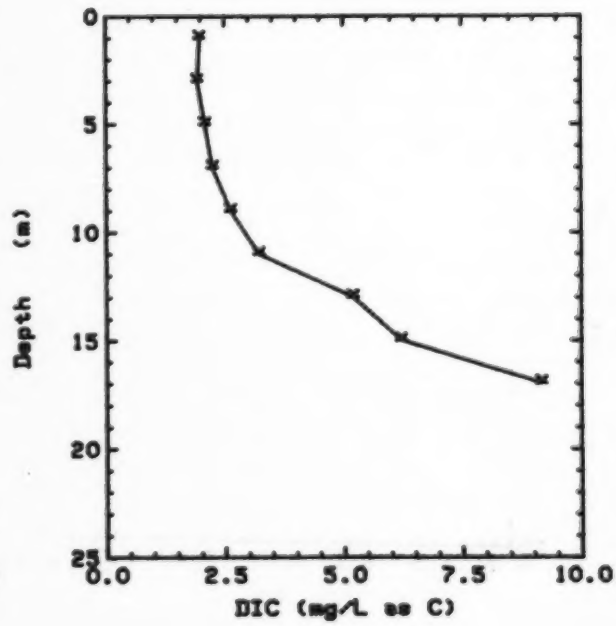


Figure 93

LITTLE CLEAR 83.05.30

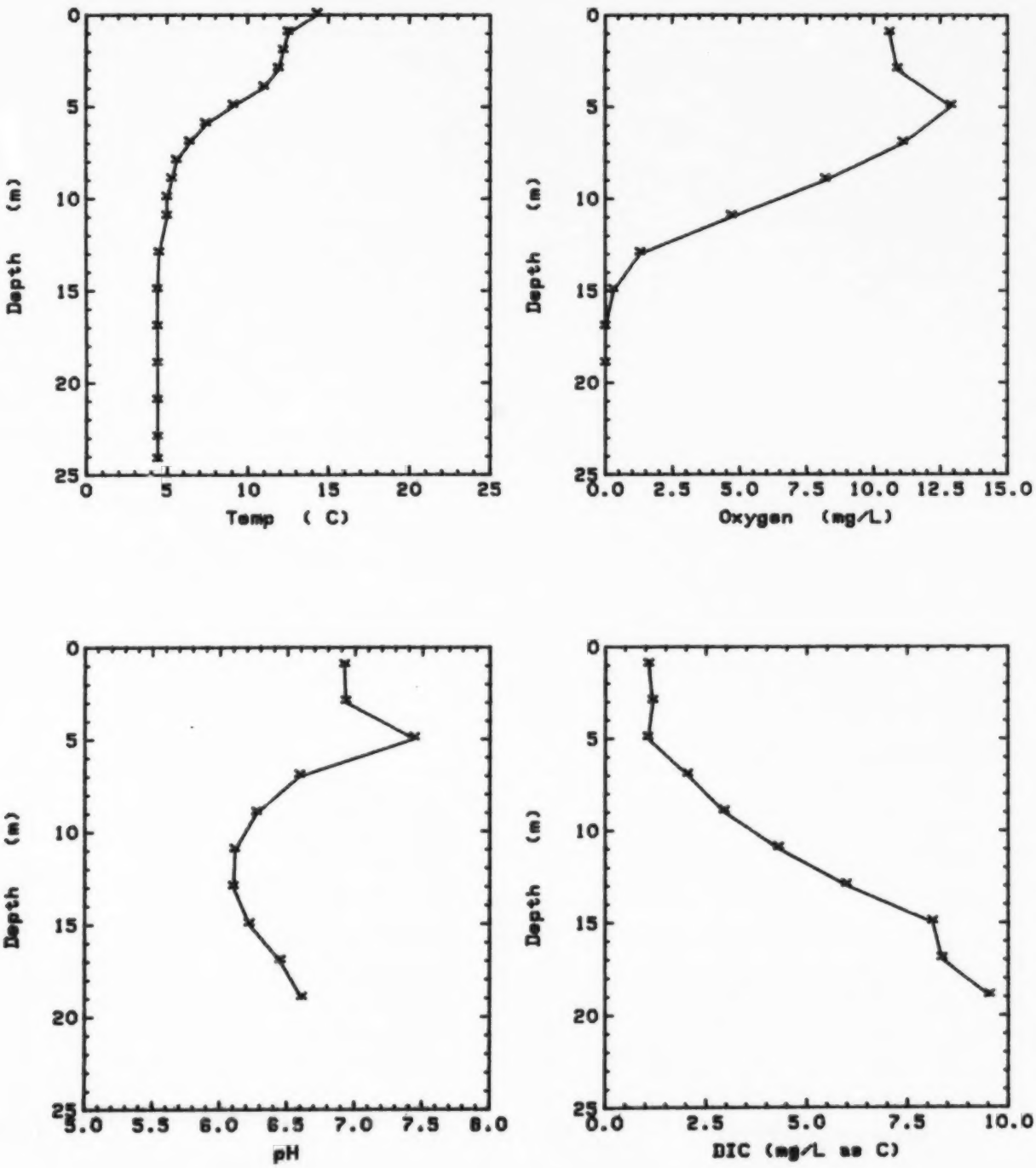


Figure 94

LITTLE CLEAR 83.06.29

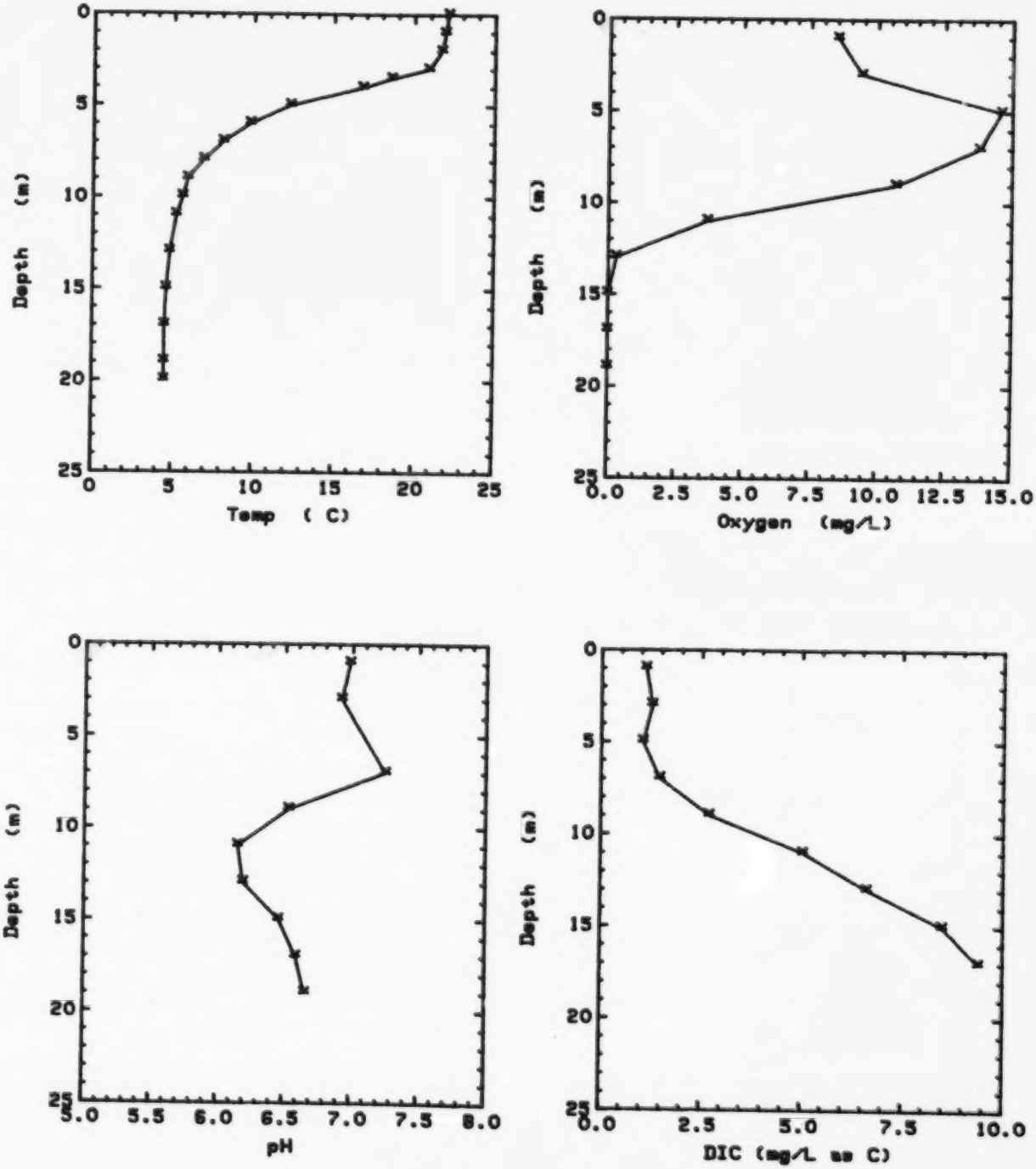


Figure 95

LITTLE CLEAR 83.07.27

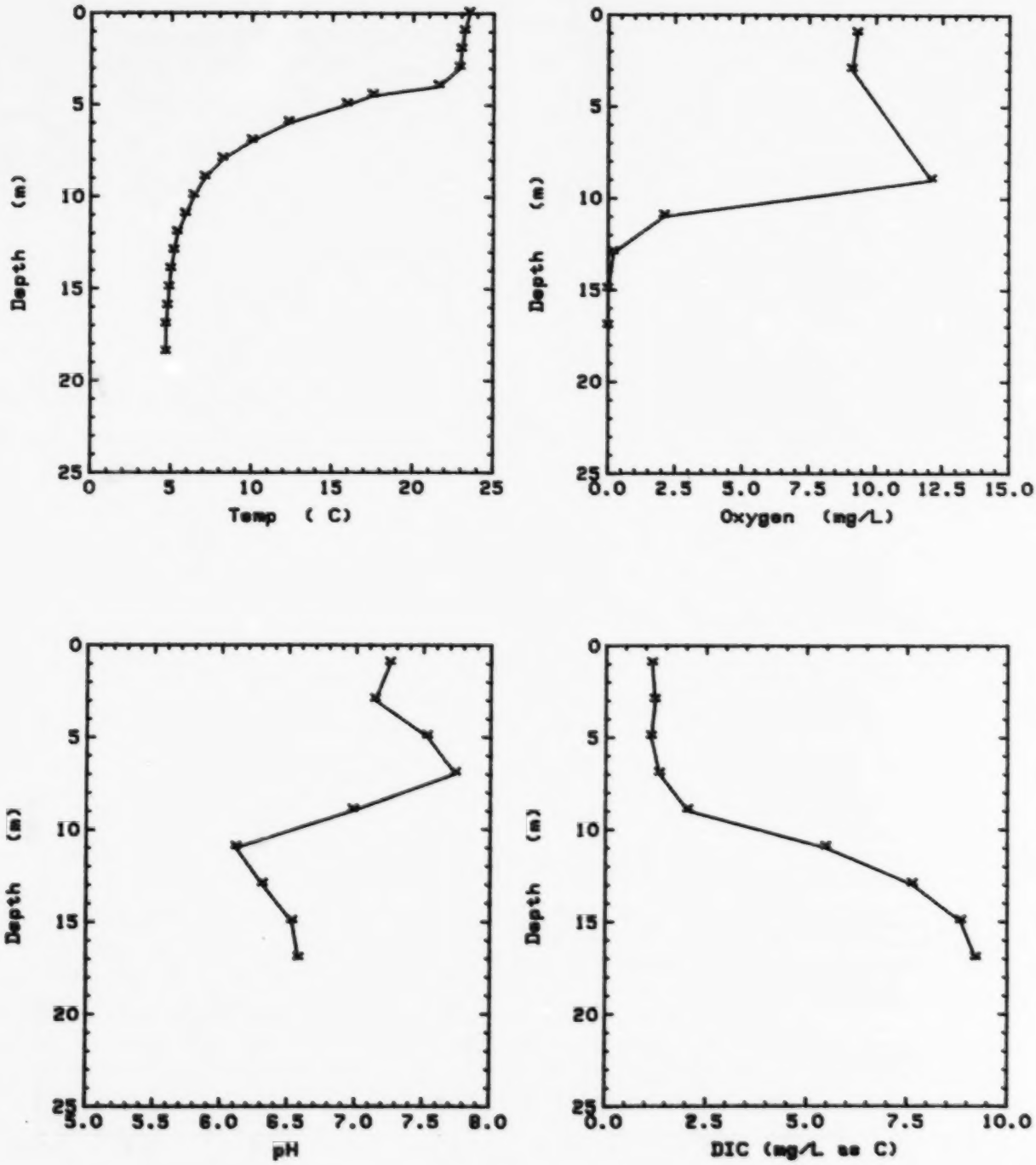
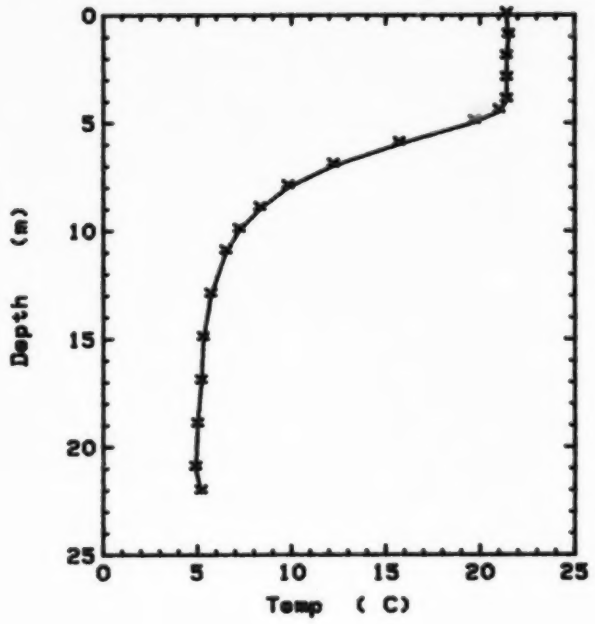
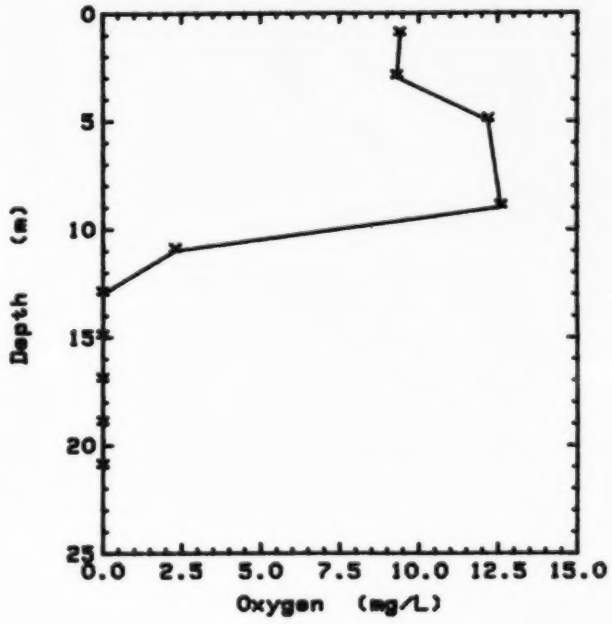
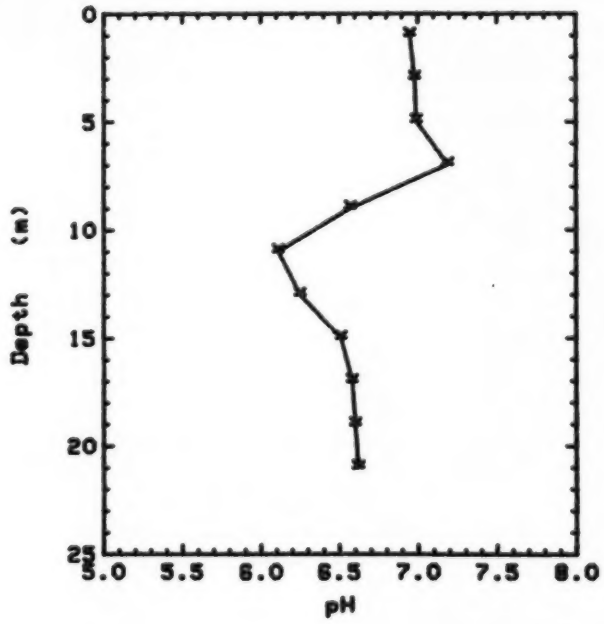


Figure 96

LITTLE CLEAR 83.08.24







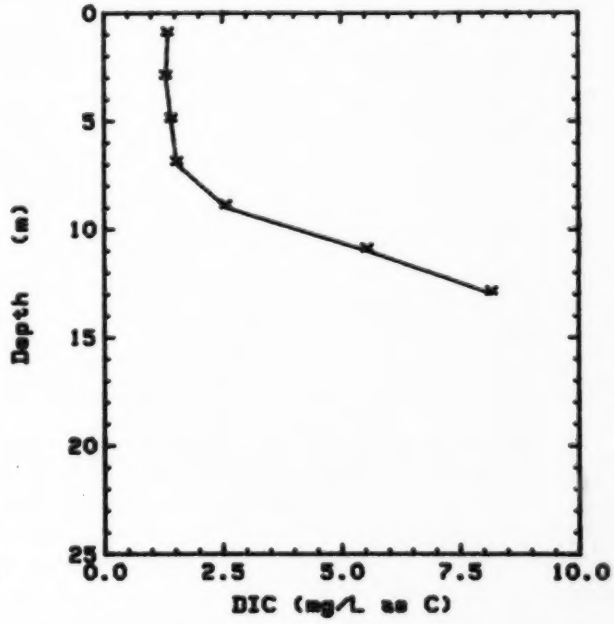


Figure 97

LITTLE CLEAR 83.10.19

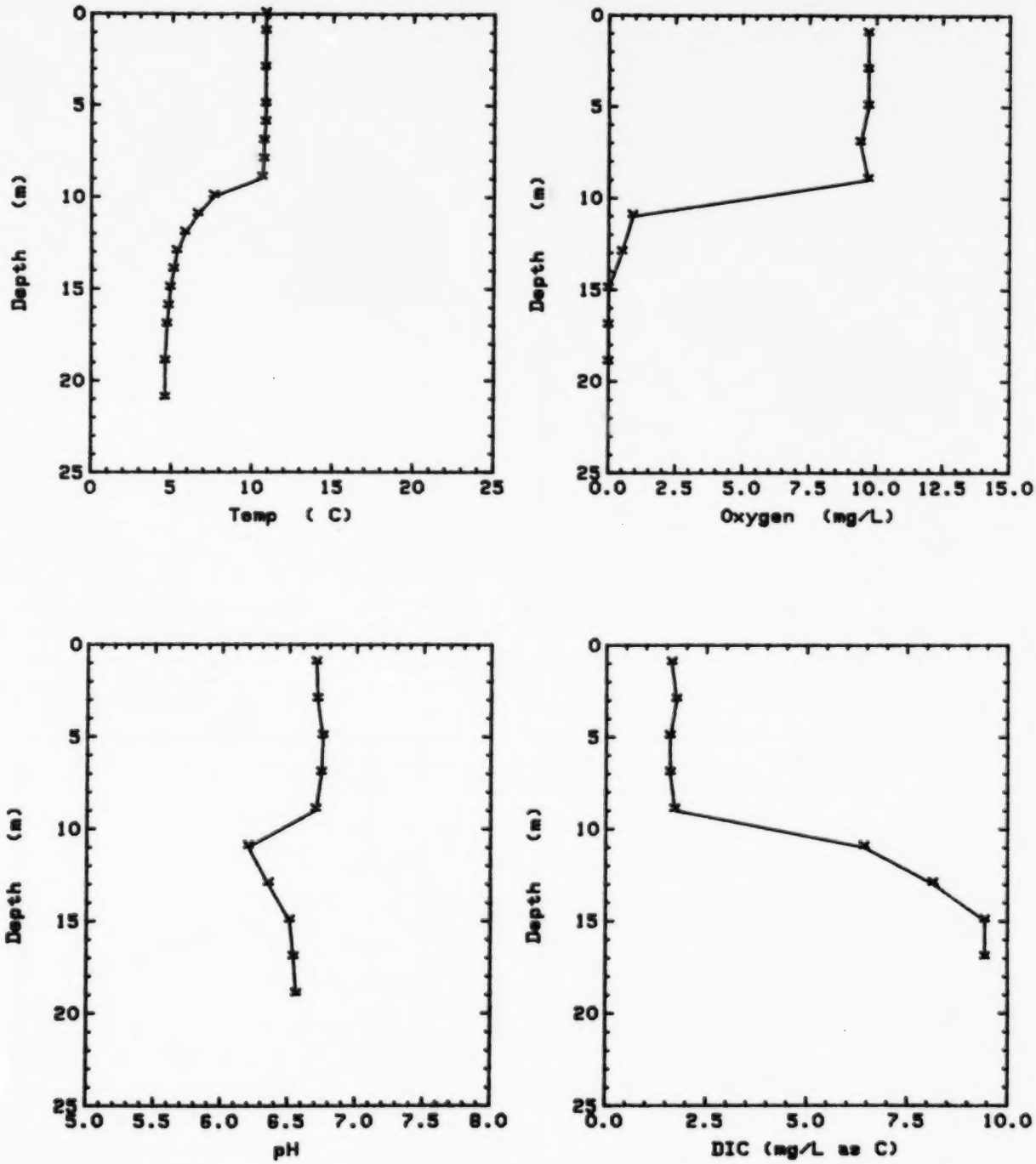
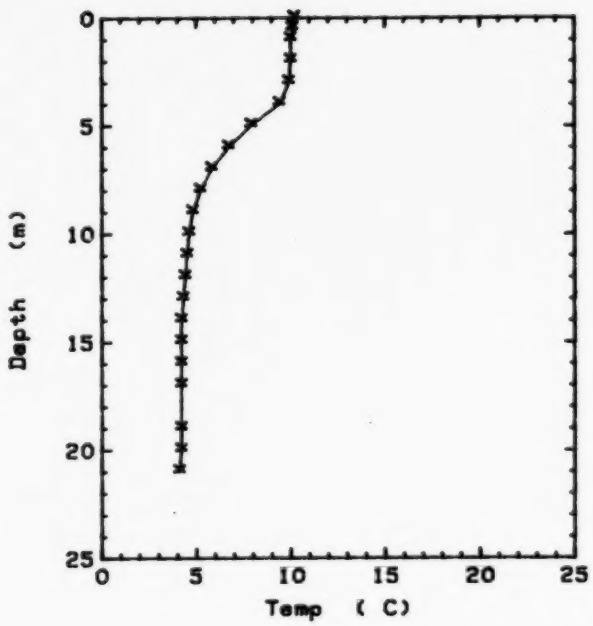
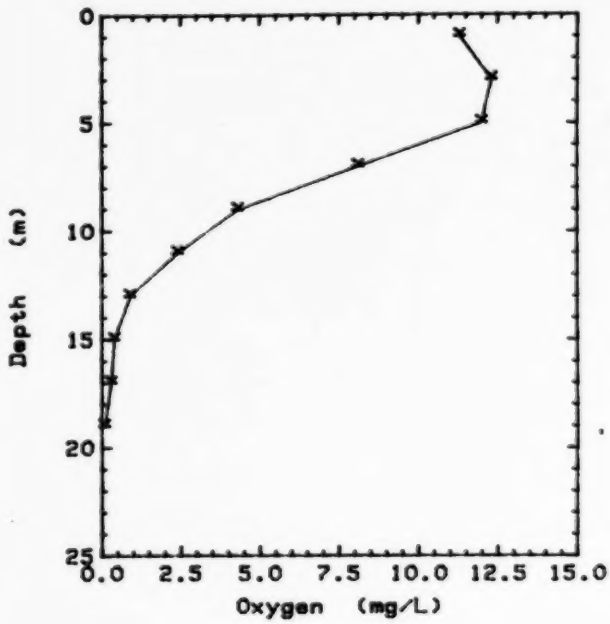
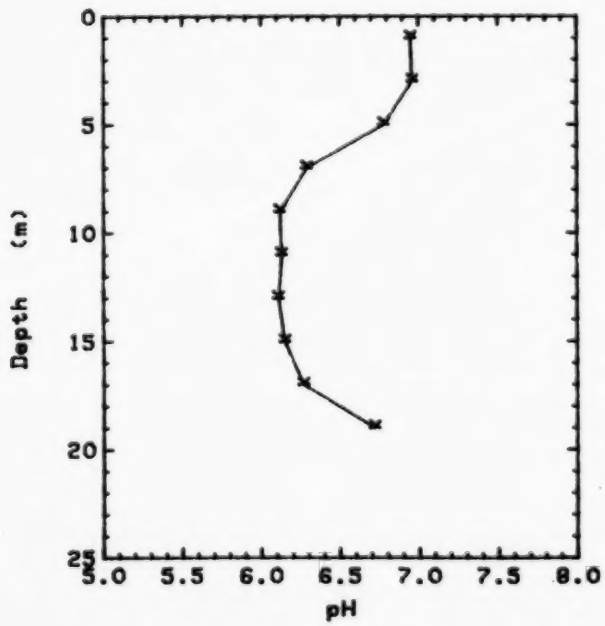


Figure 98

LITTLE CLEAR 84.05.17







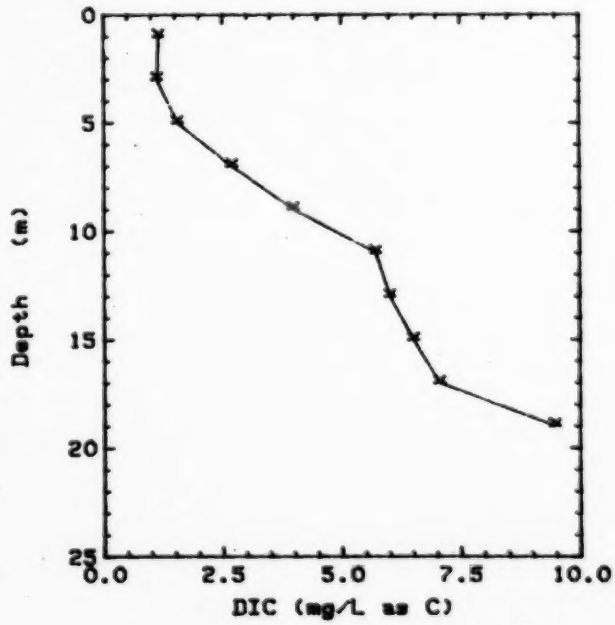


Figure 99

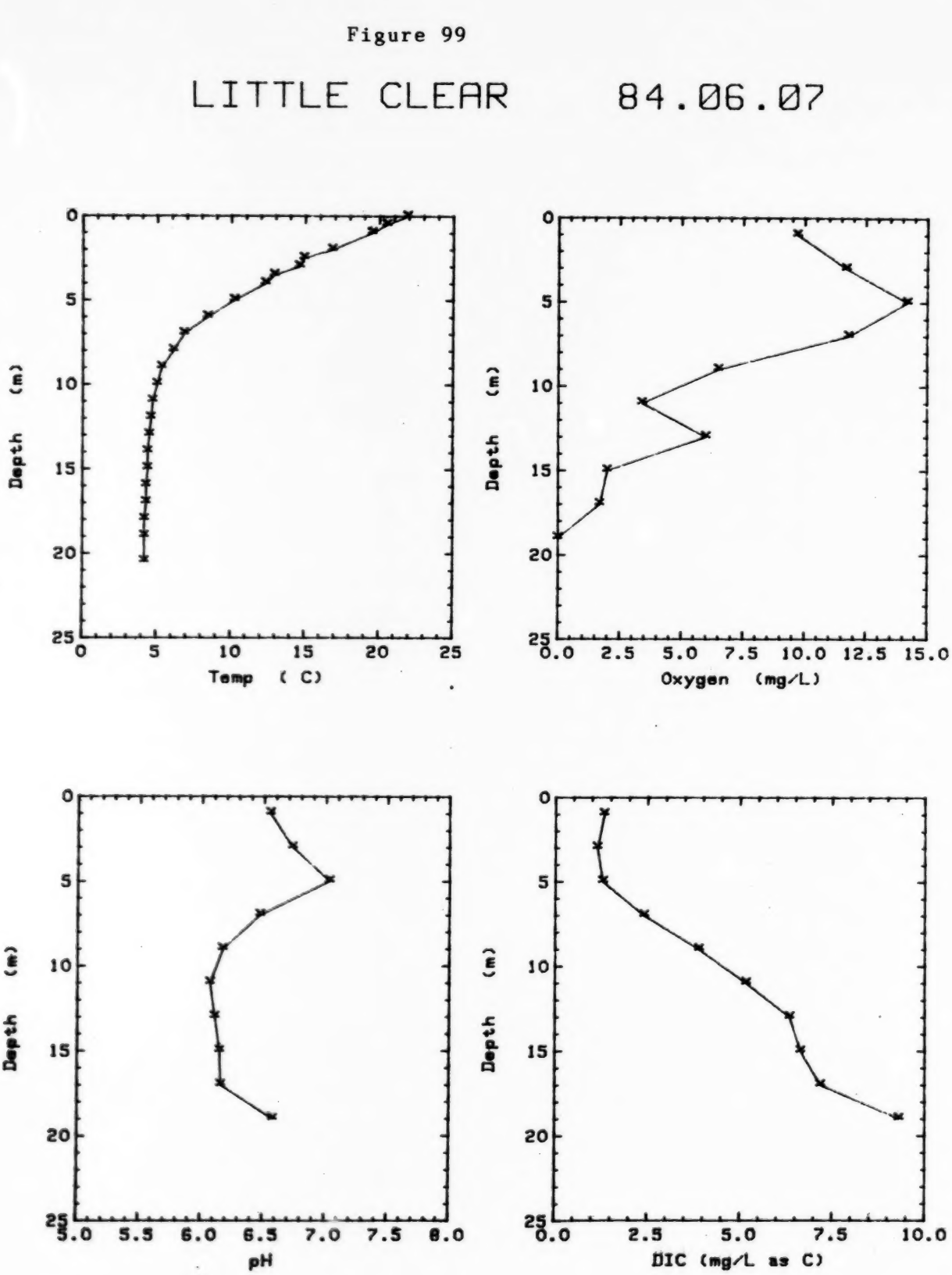


Figure 100

LITTLE CLEAR 84.08.01

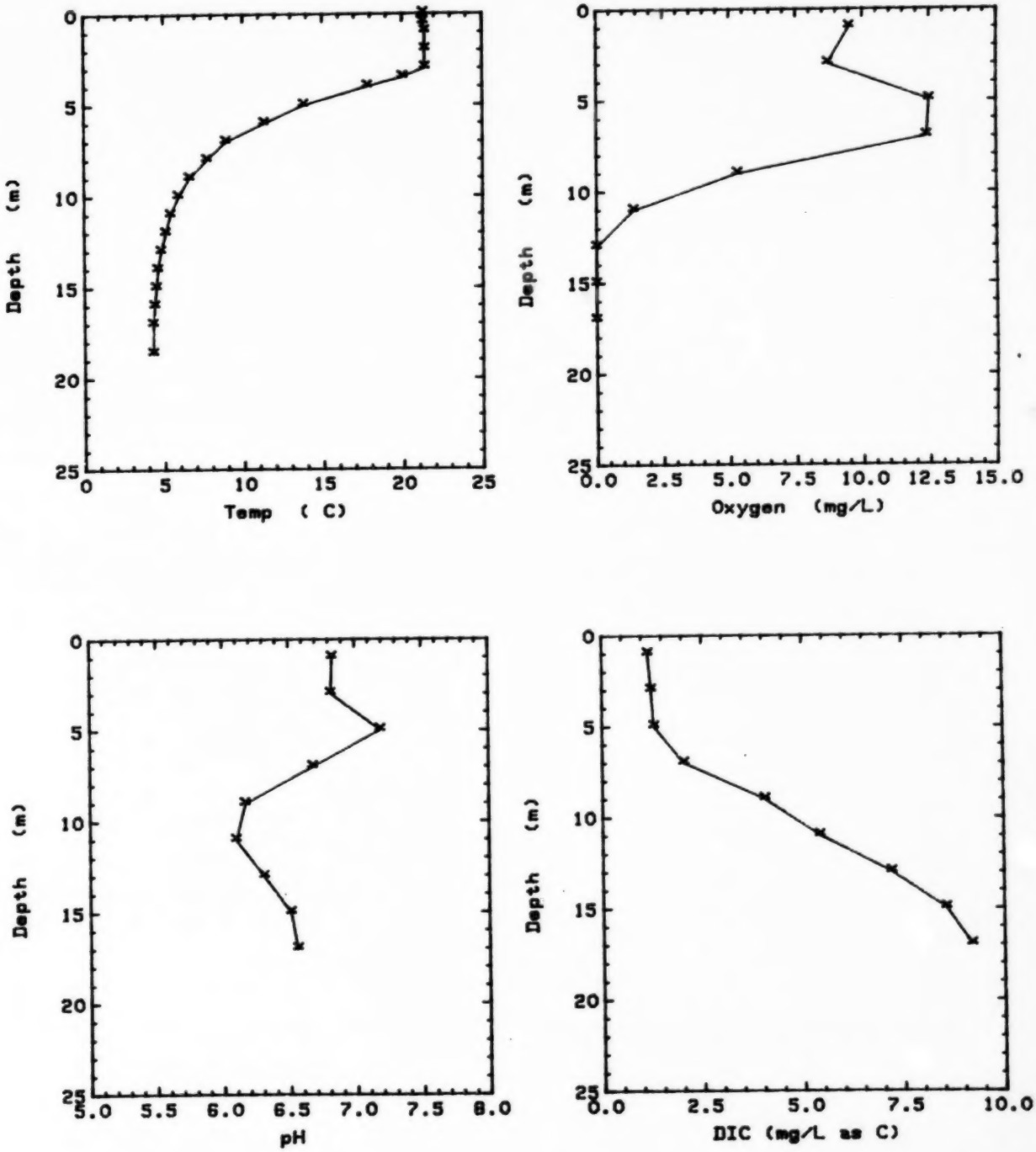


Figure 101

LITTLE CLEAR 84.07.05

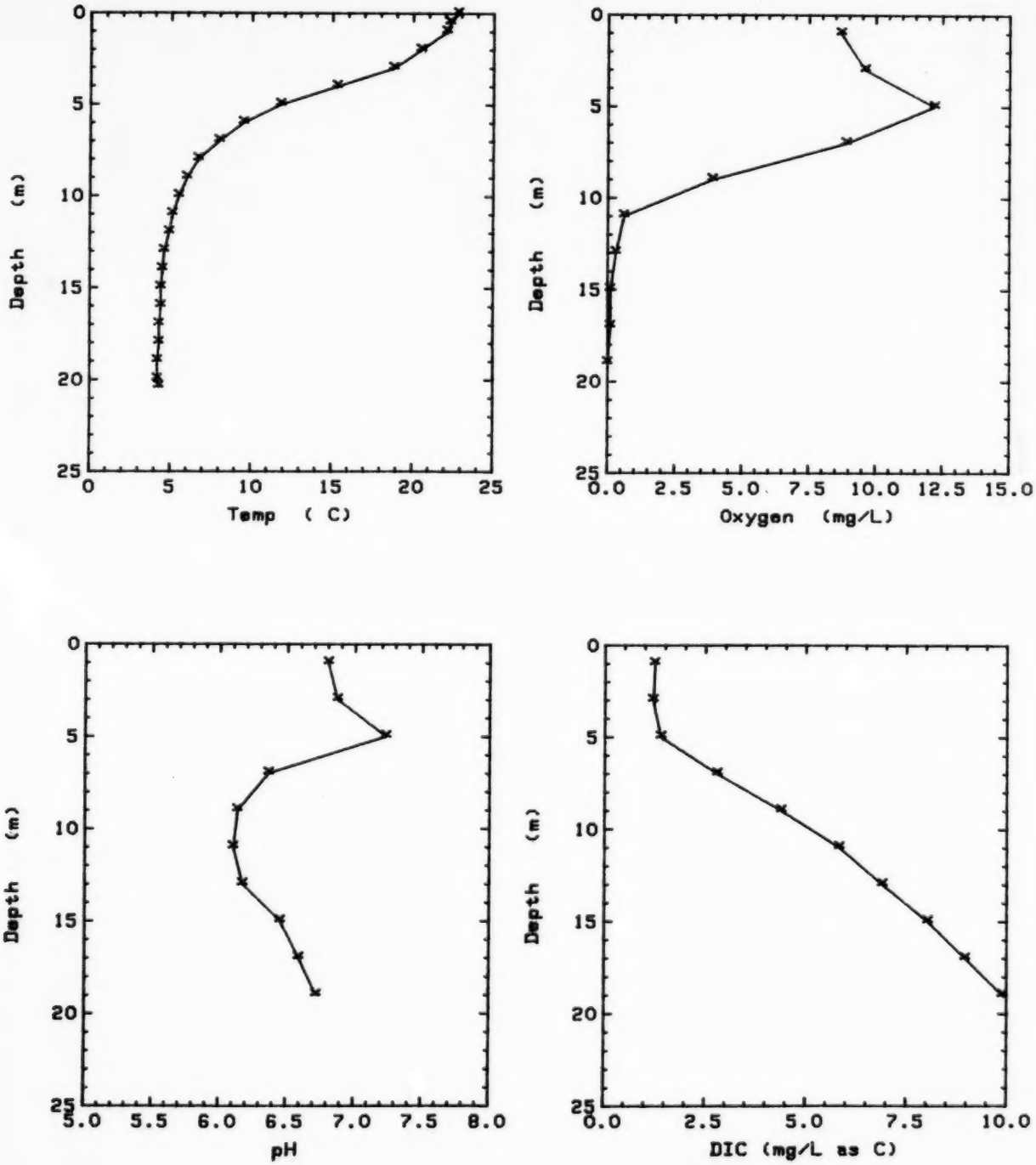
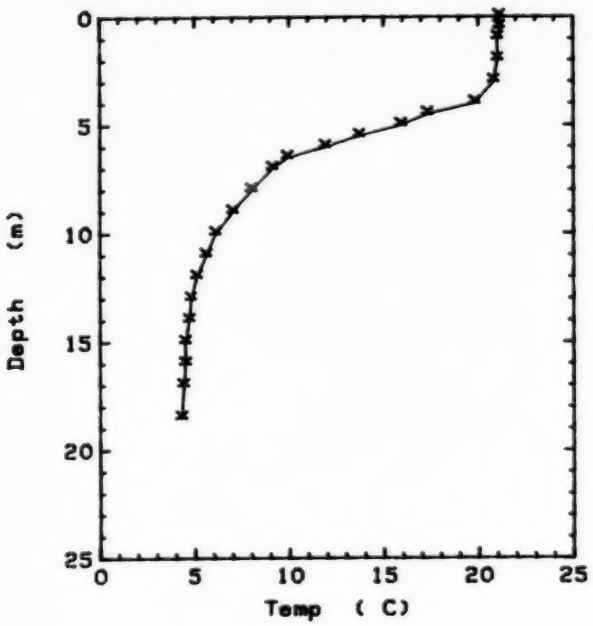
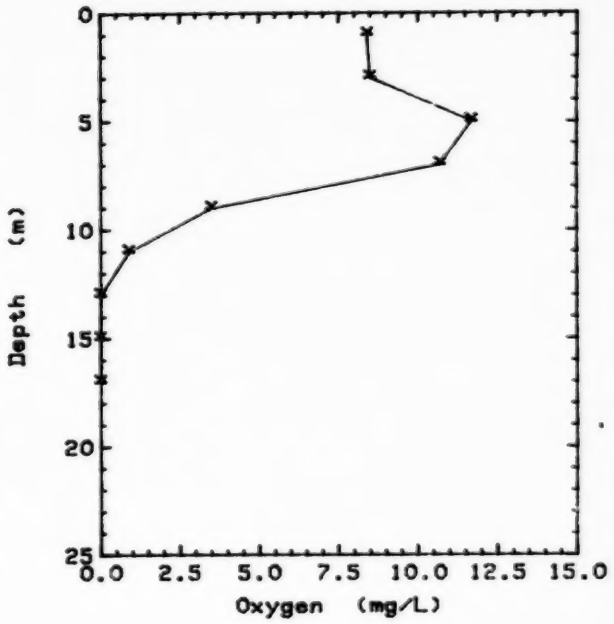
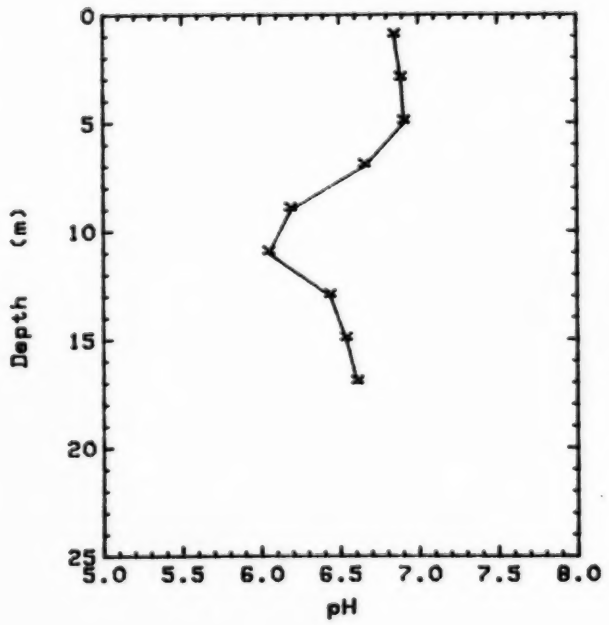


Figure 102

LITTLE CLEAR 84.08.30







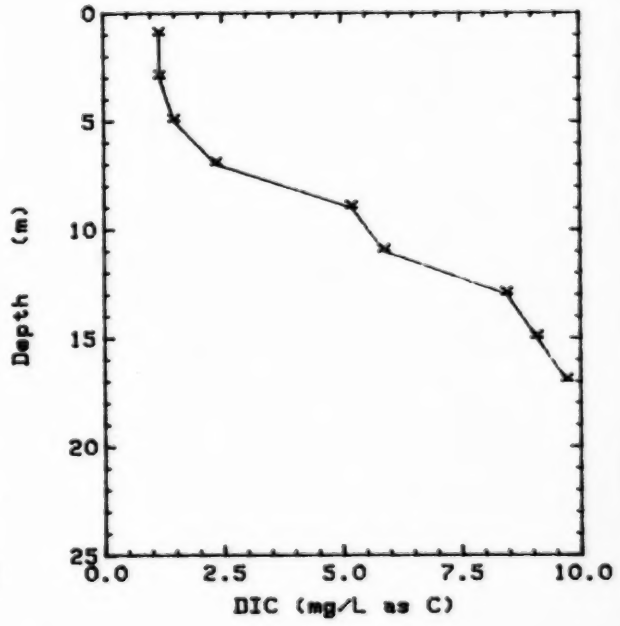


Figure 103

LITTLE CLEAR 84.10.31

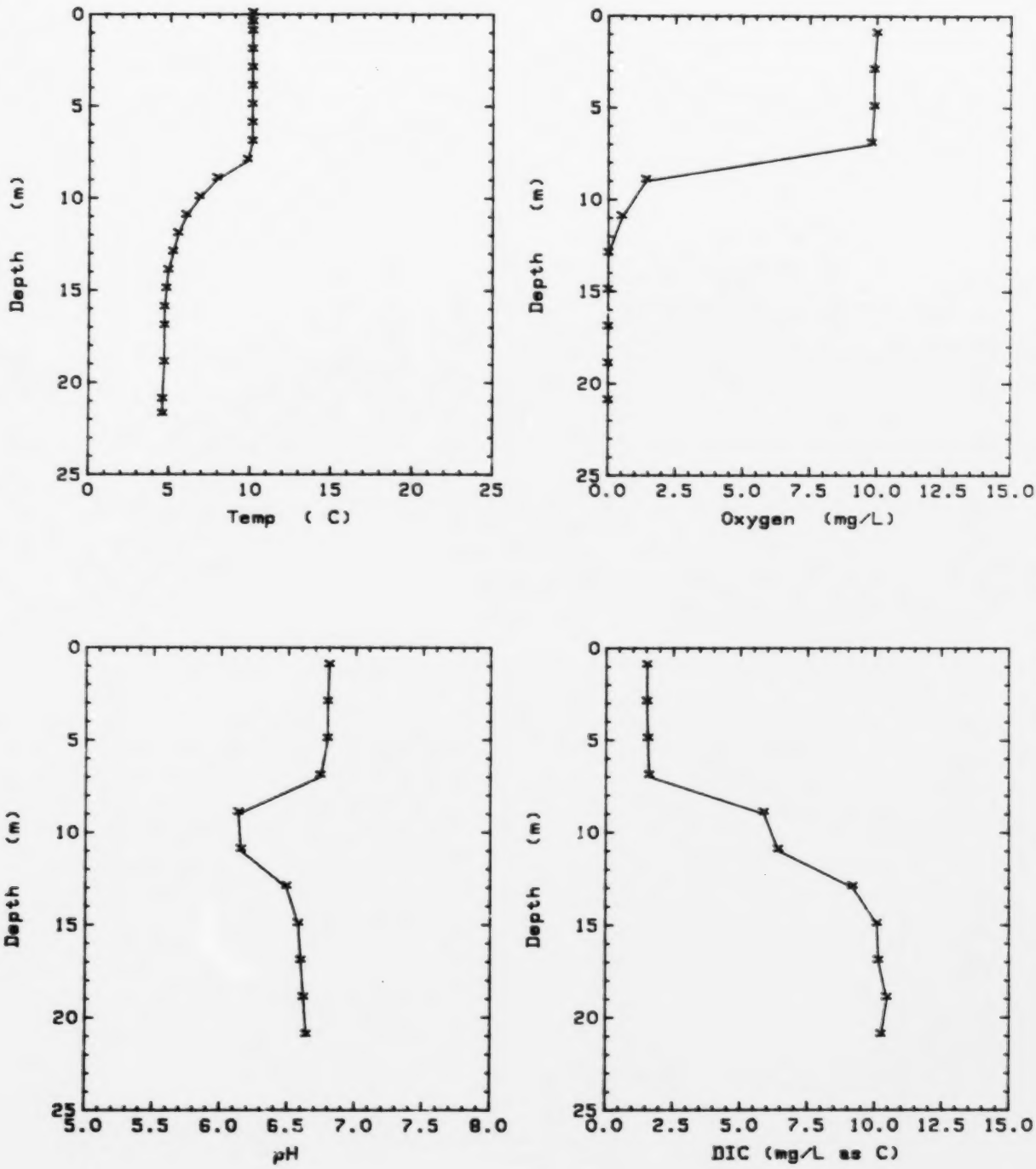


Figure 104-122 - SOLITAIRE LAKE

Figure 104

SOLITAIRE 82.05.04

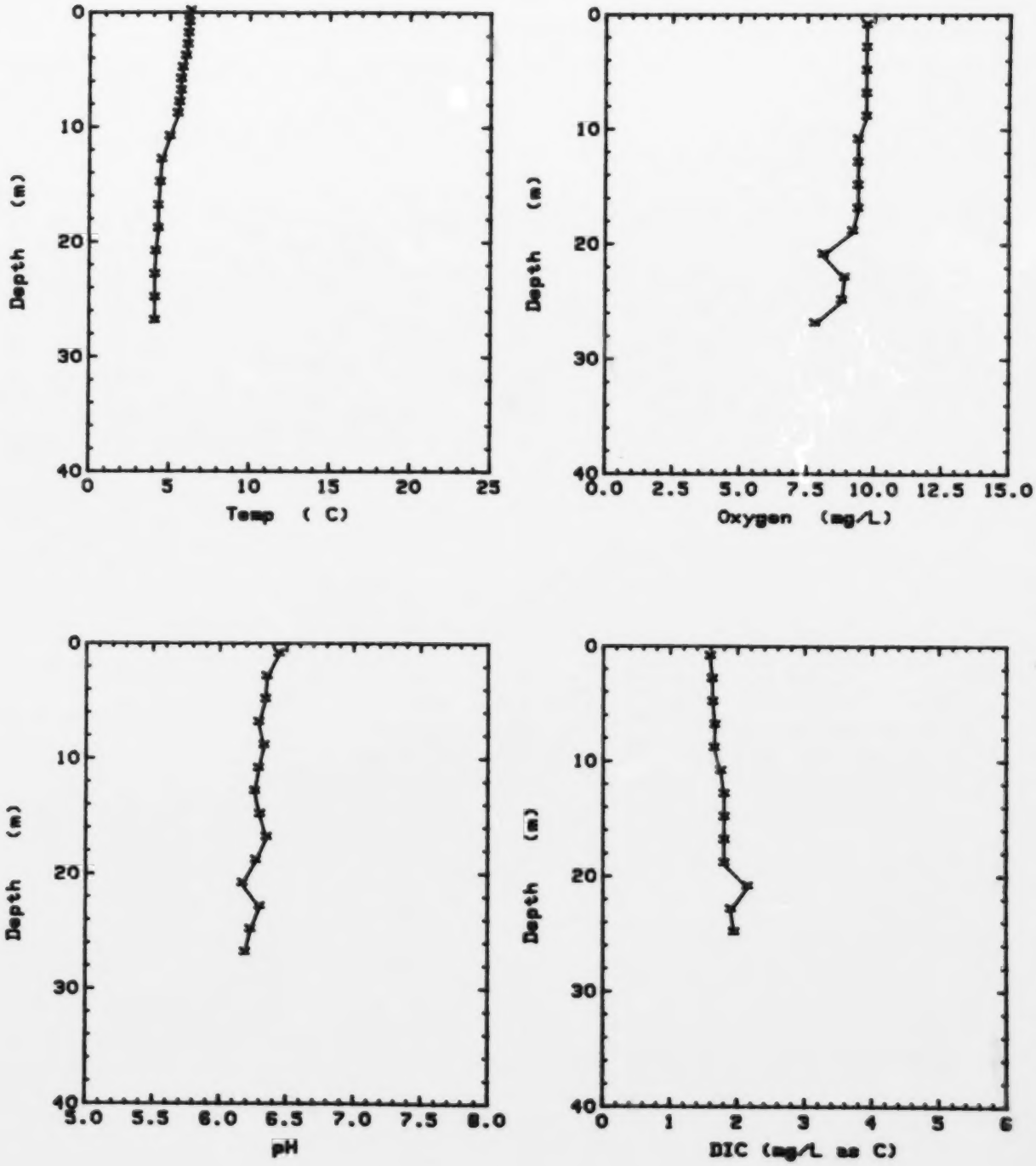


Figure 105

SOLITAIRE 82.06.08

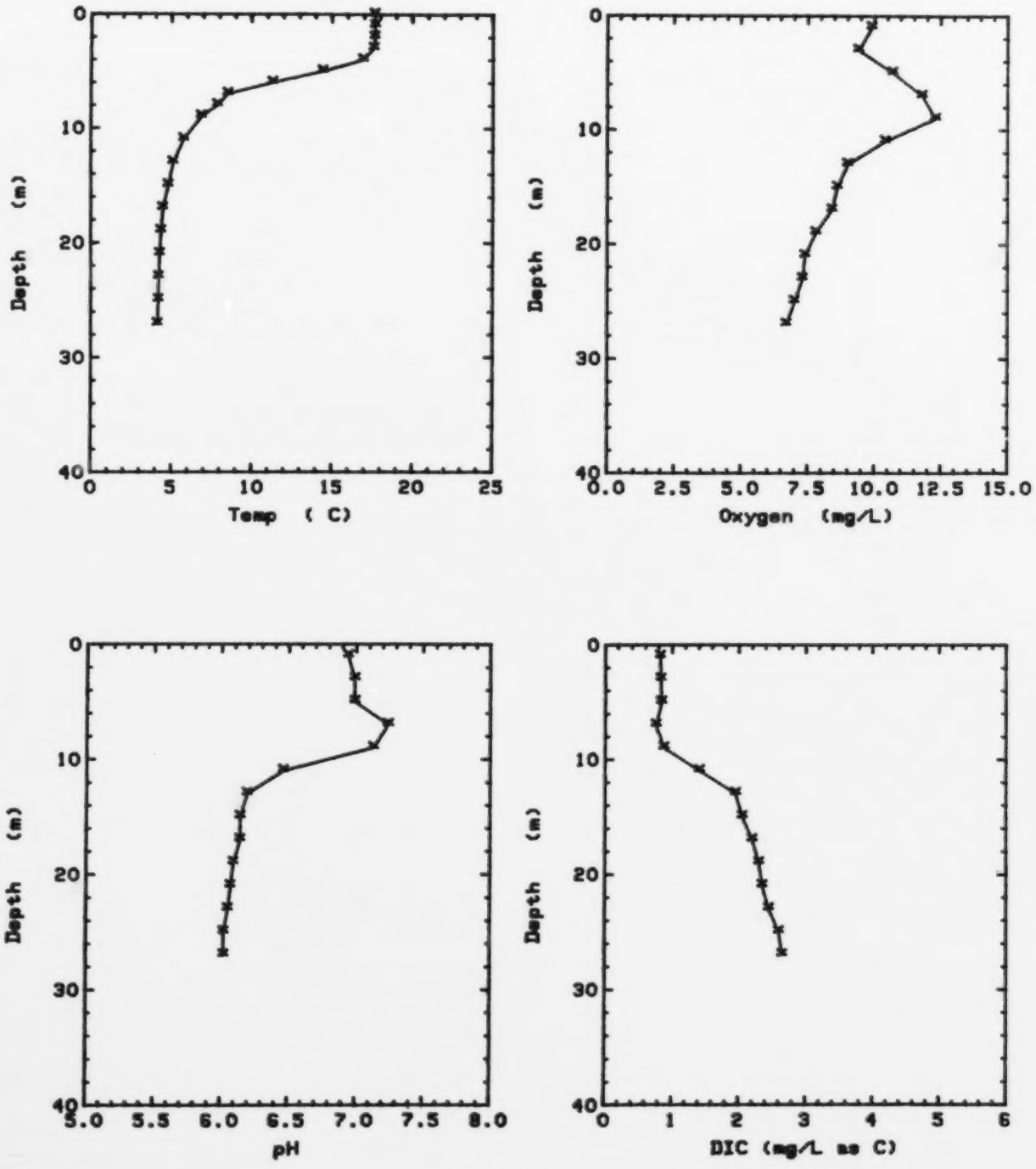
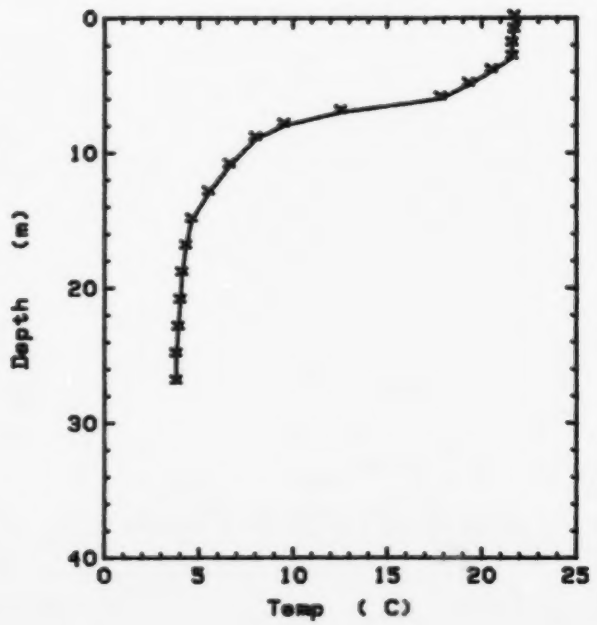
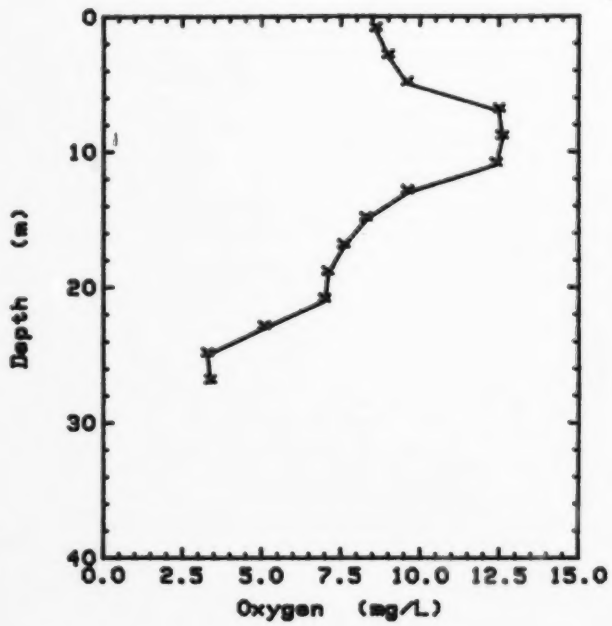
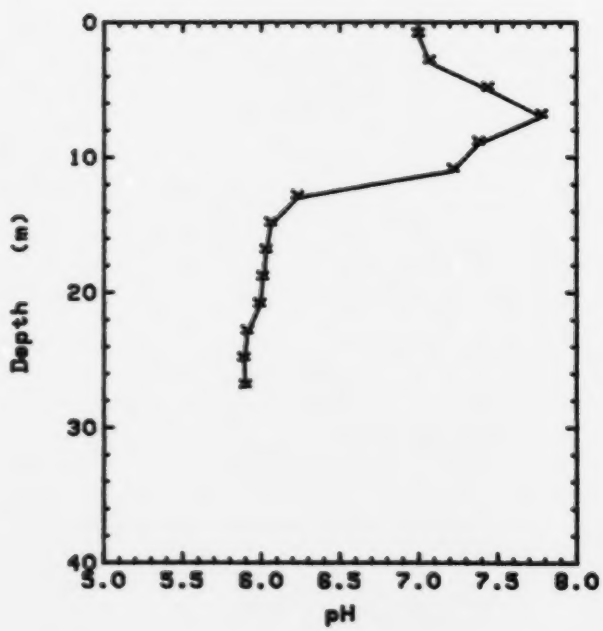


Figure 106

SOLITAIRE 82.07.08







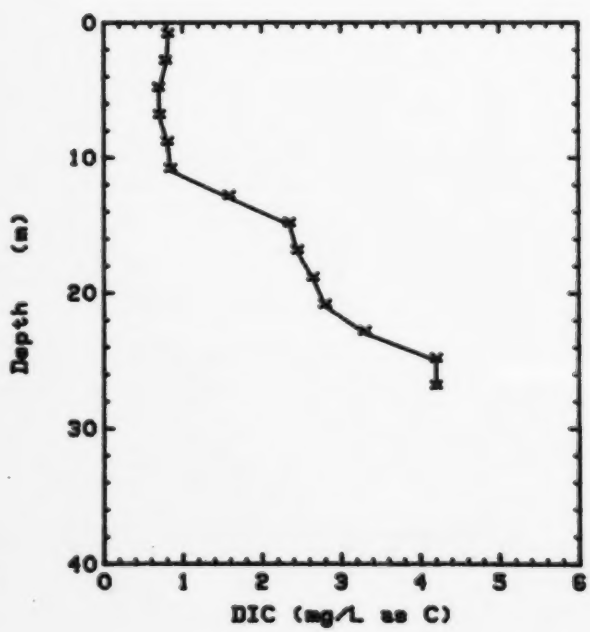


Figure 107

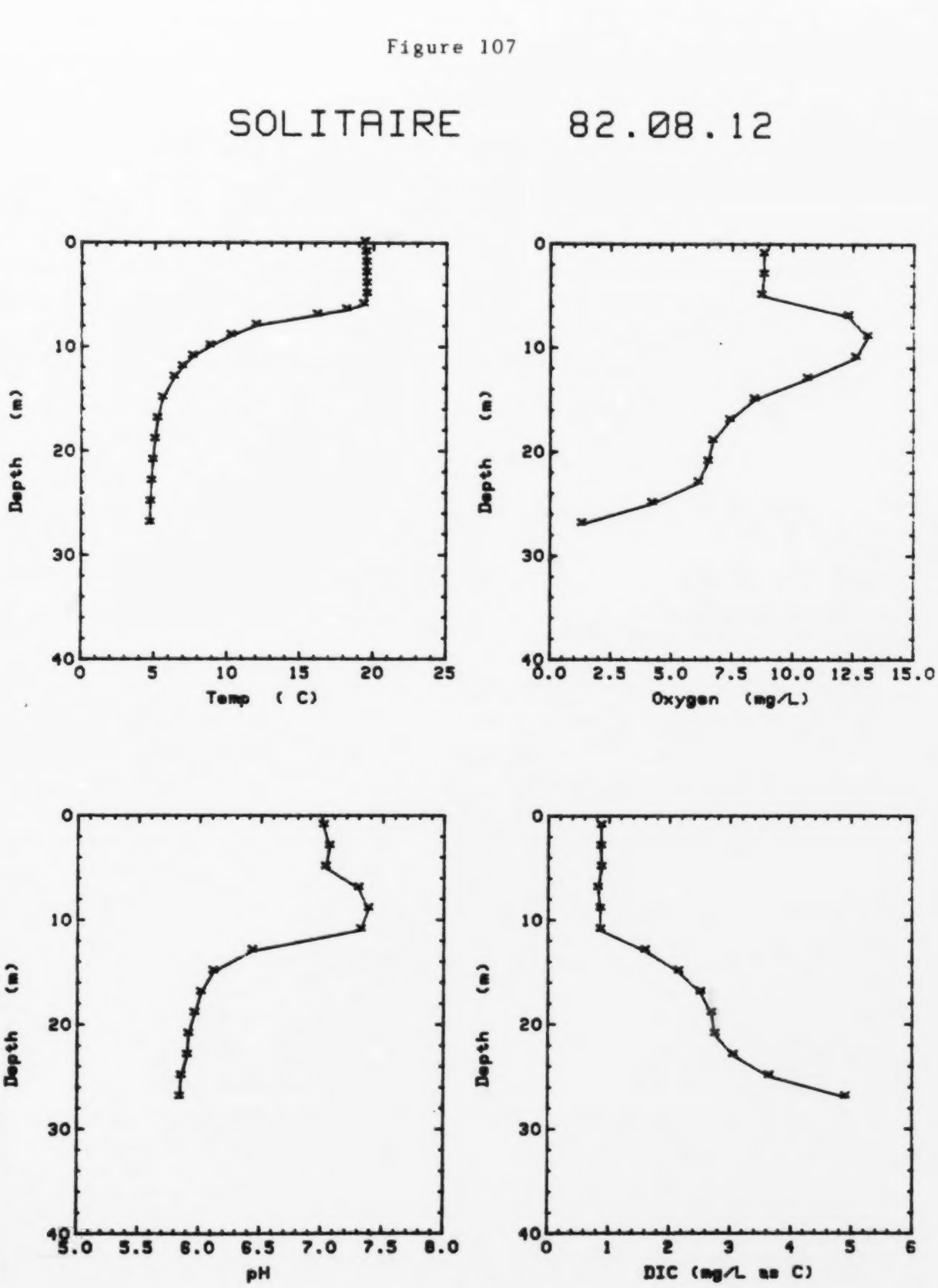
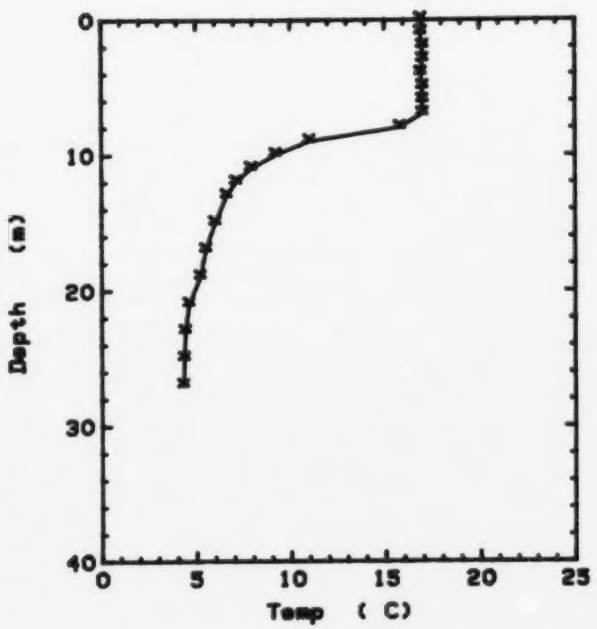
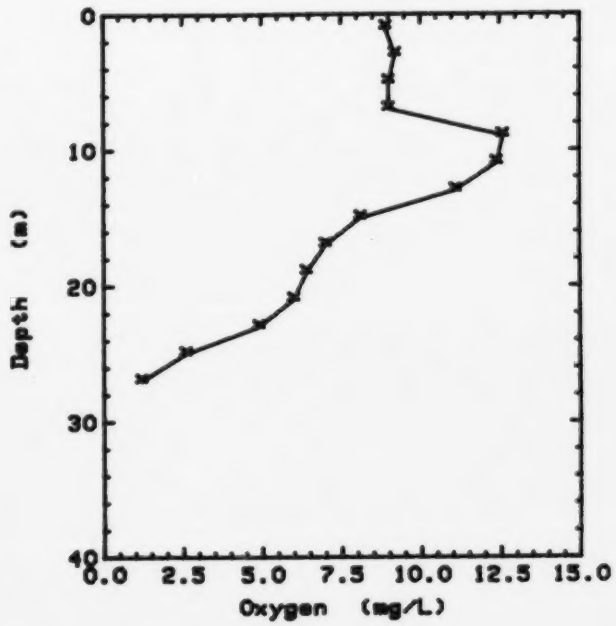
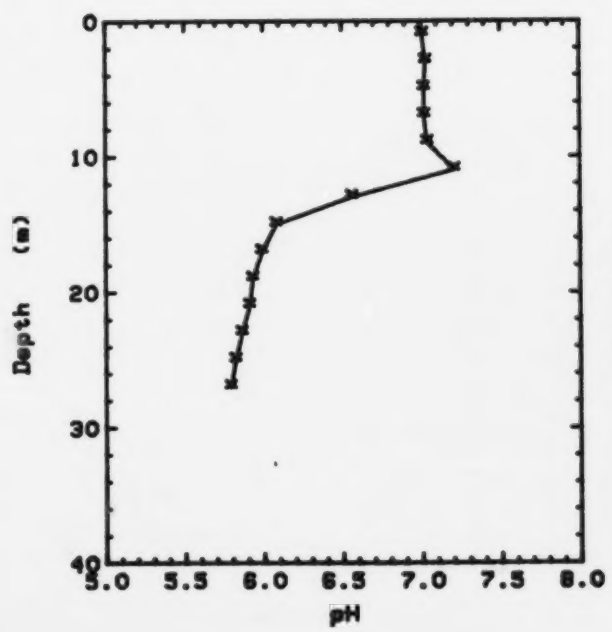


Figure 108

SOLITAIRE 82.08.30







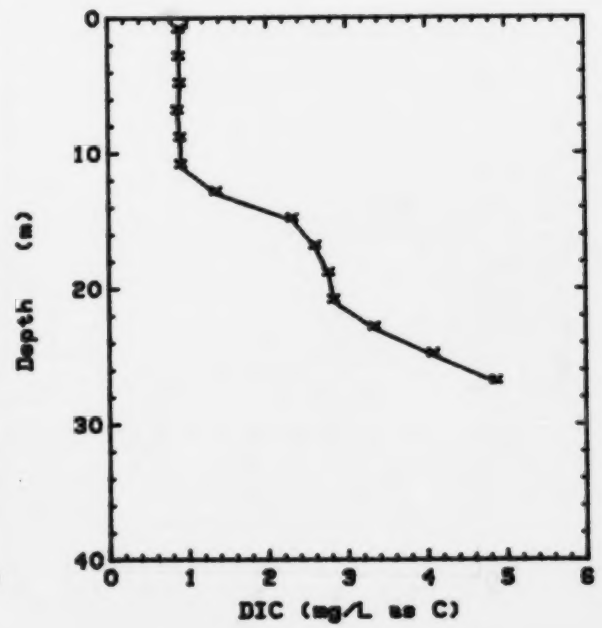
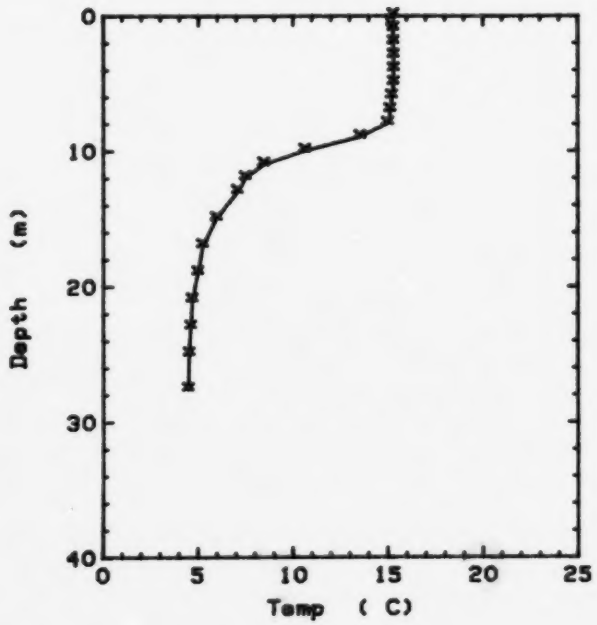
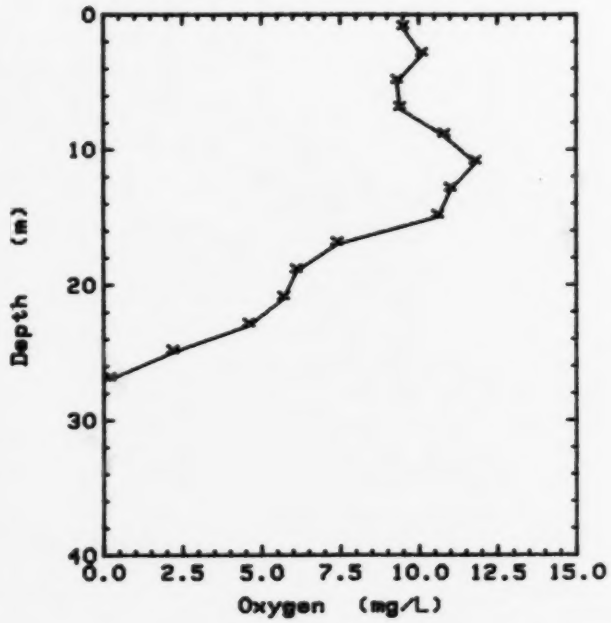
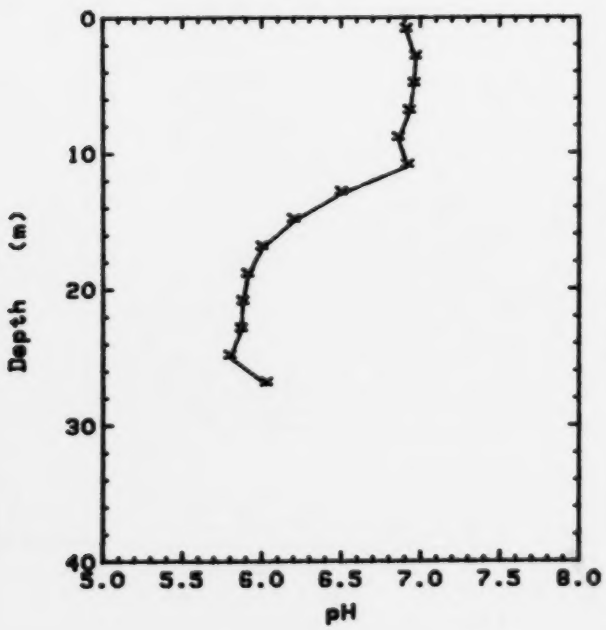


Figure 109

SOLITAIRE 82.09.27







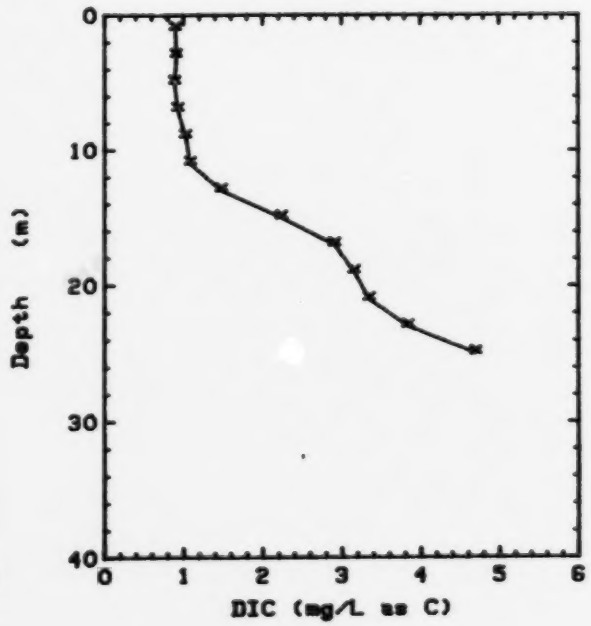


Figure 110

SOLITAIRE 82.11.02

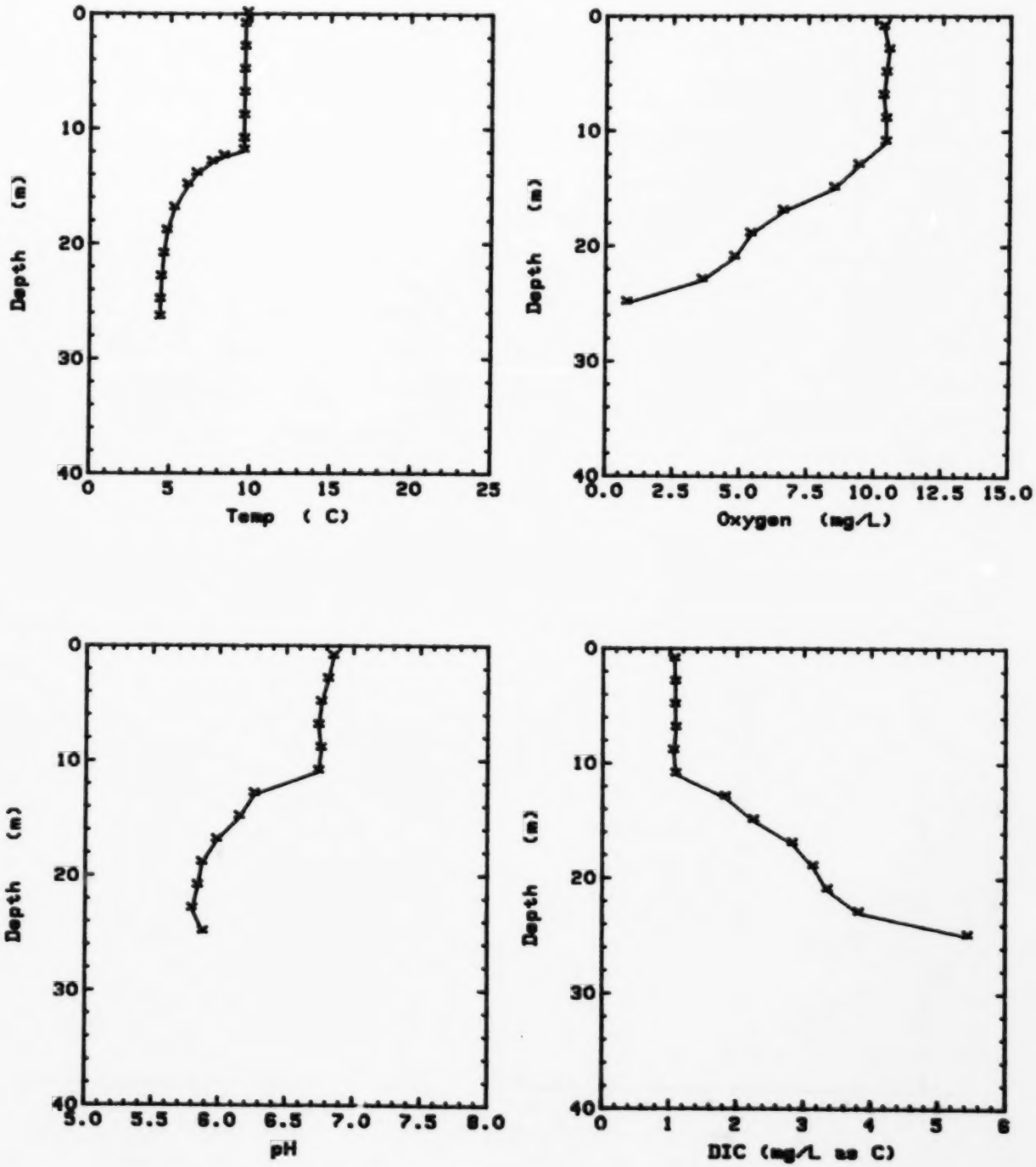


Figure 111

SOLITAIRE 83.04.28

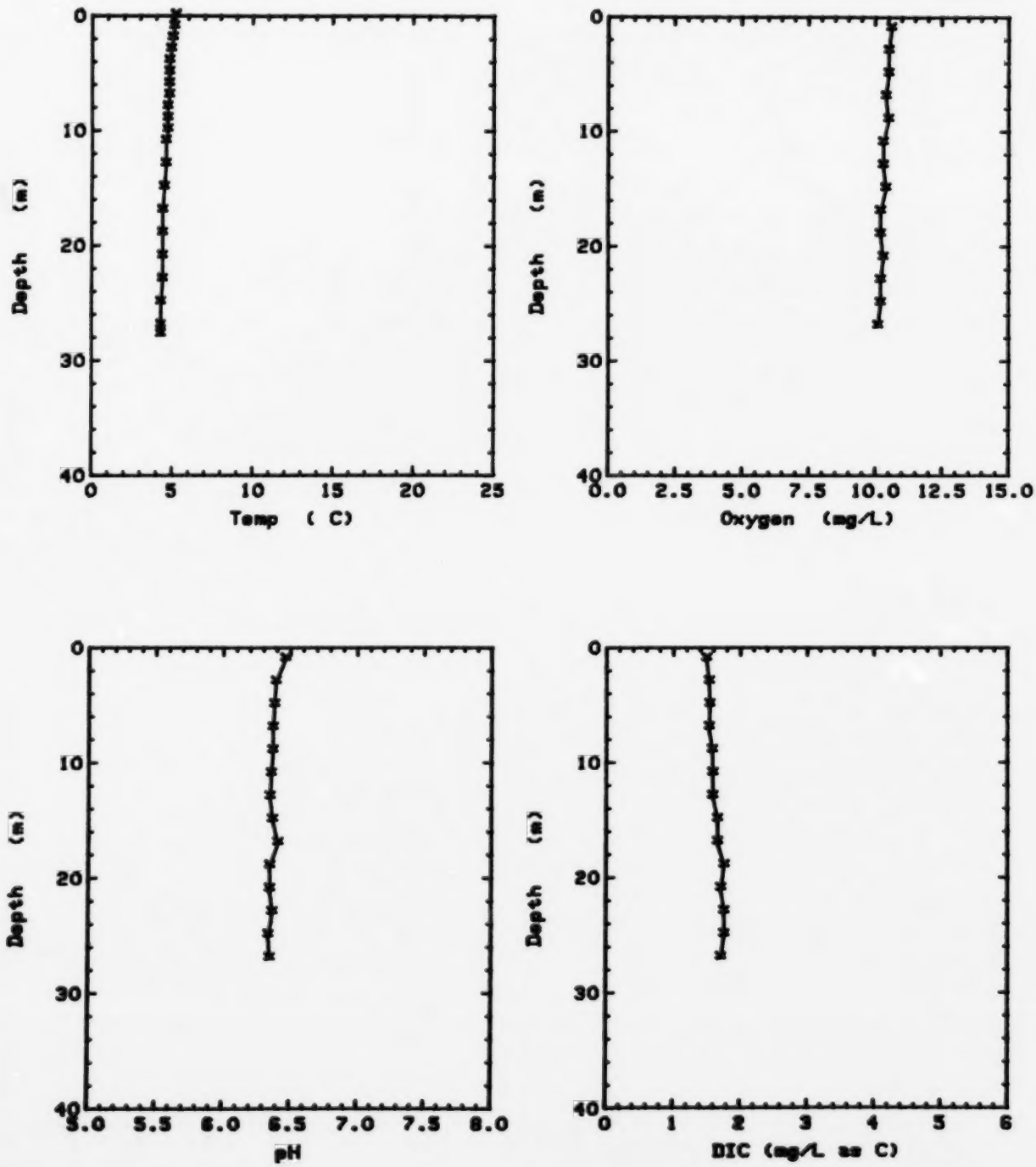


Figure 112

SOLITAIRE 83.06.02

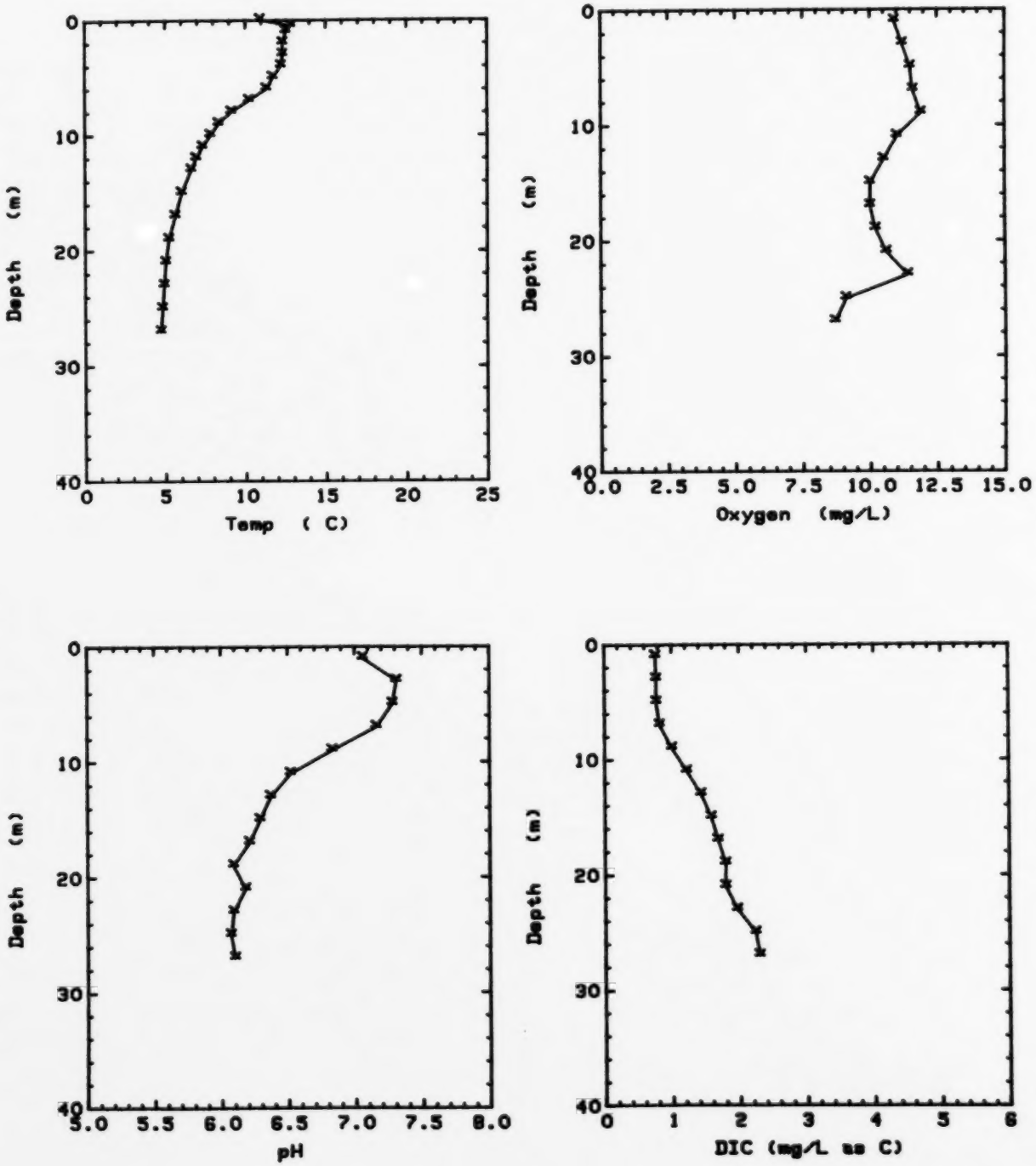


Figure 113

SOLITAIRE 83.06.29

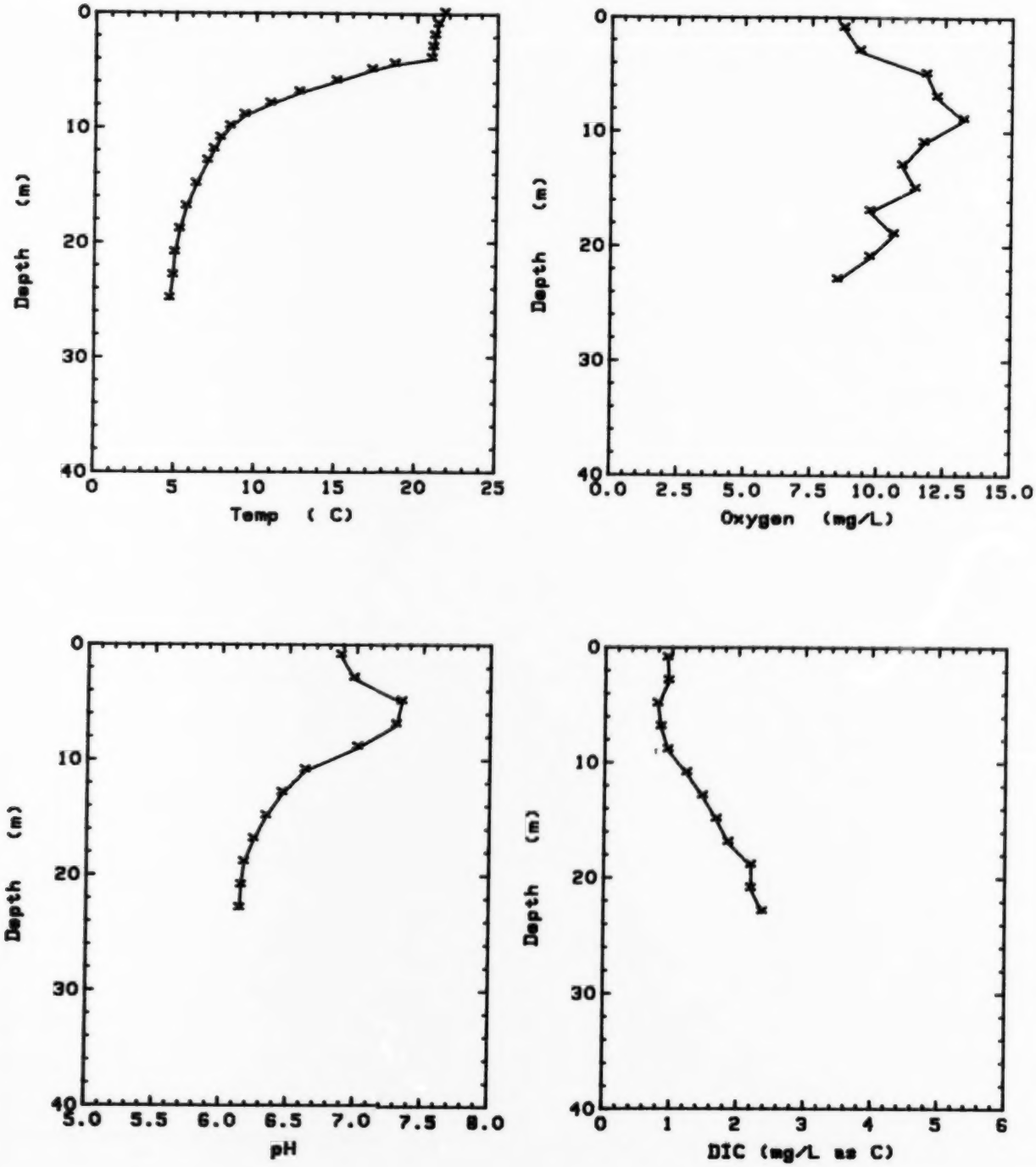


Figure 114

SOLITAIRE 83.07.27

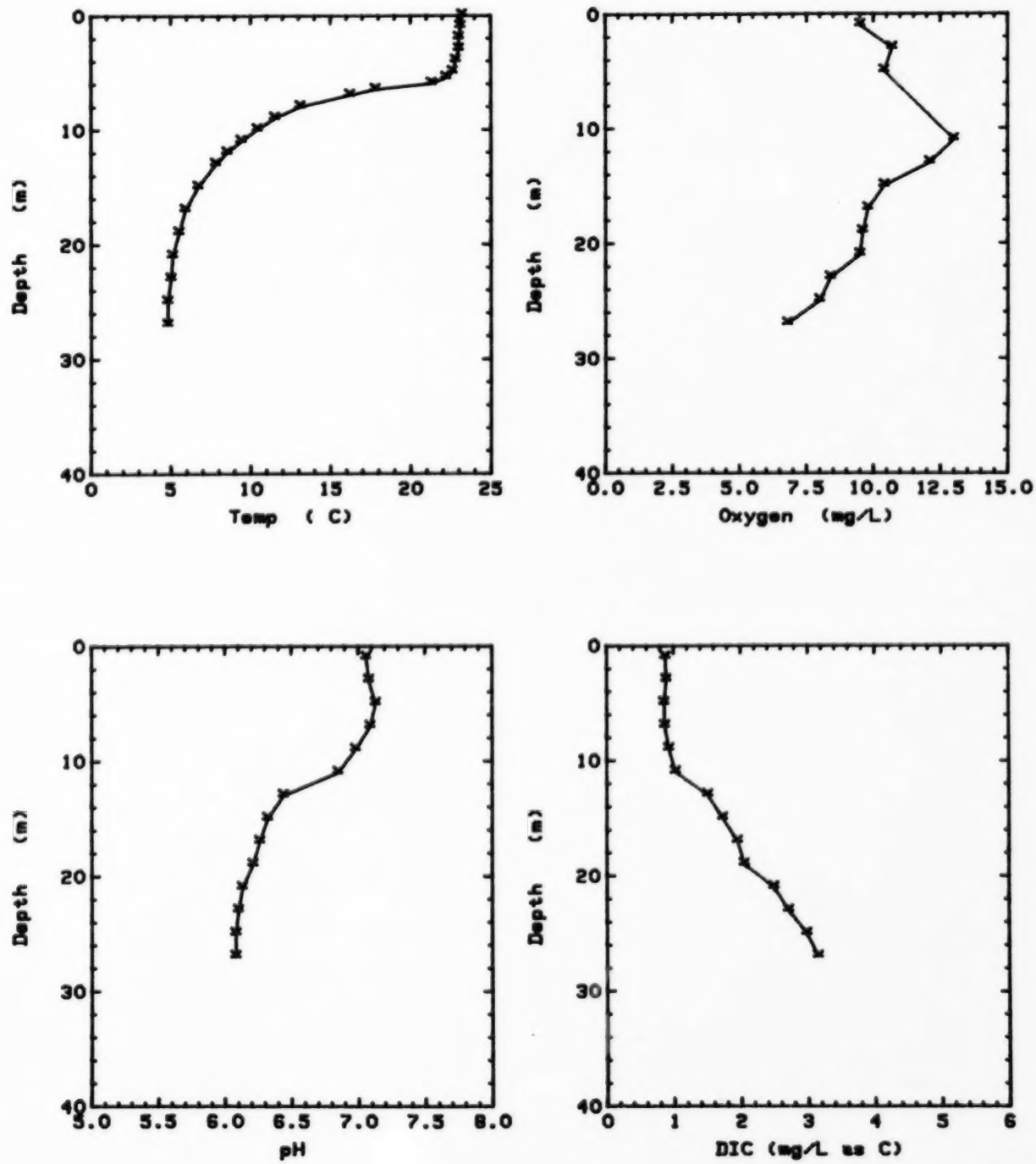


Figure 115

SOLITAIRE 83.08.24

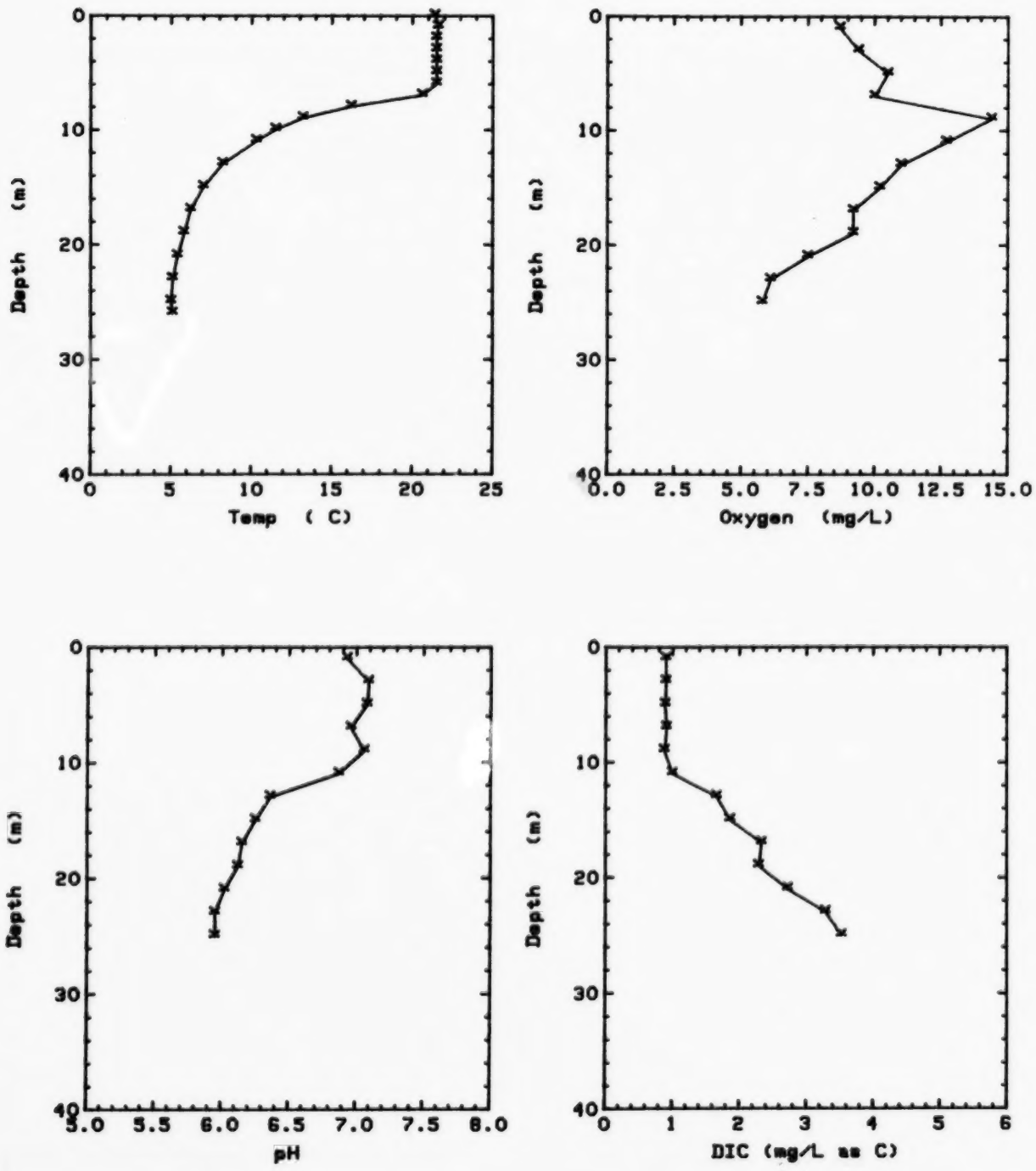


Figure 116

SOLITAIRE 83.10.19

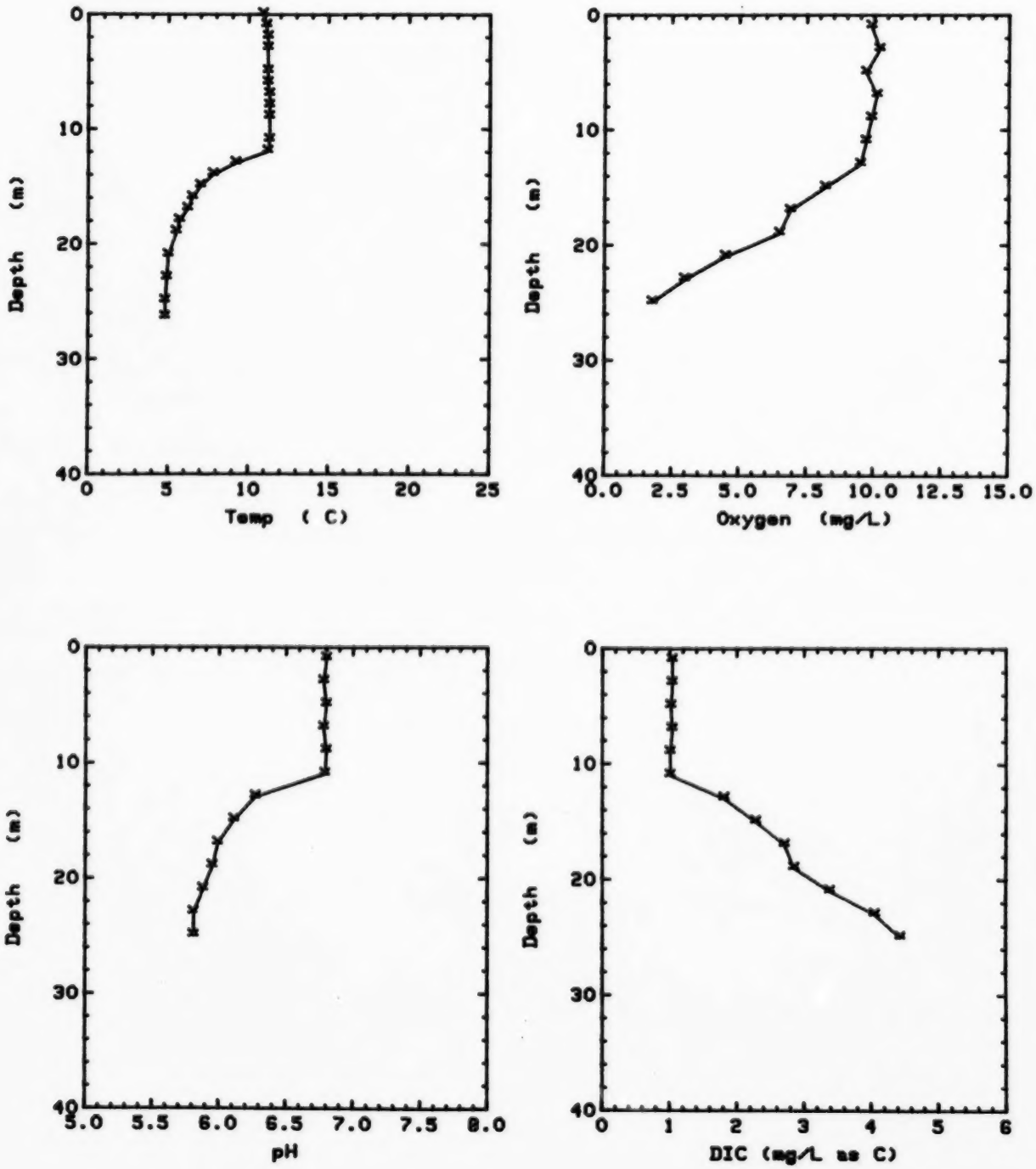


Figure 117

SOLITAIRE 84.05.09

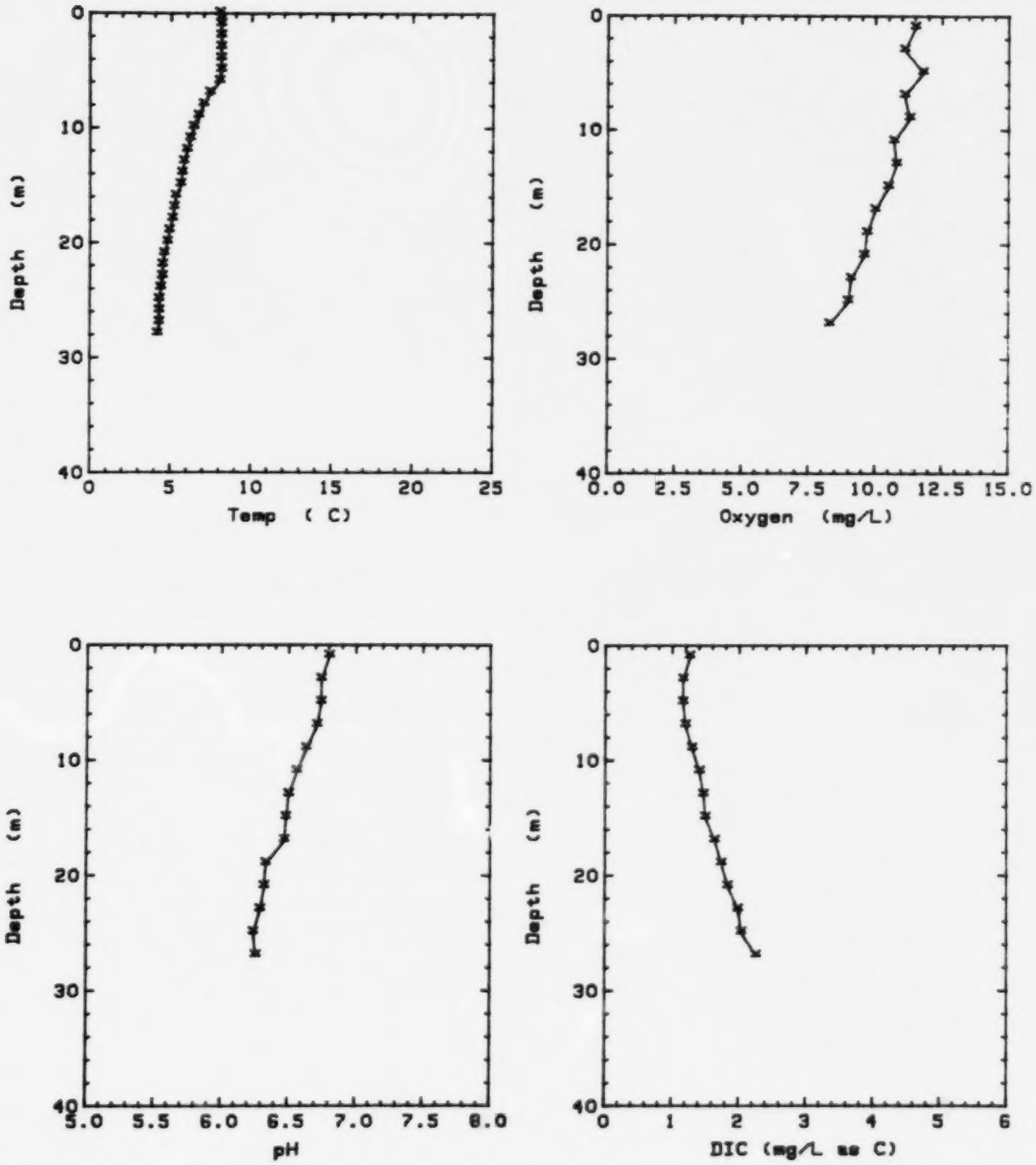
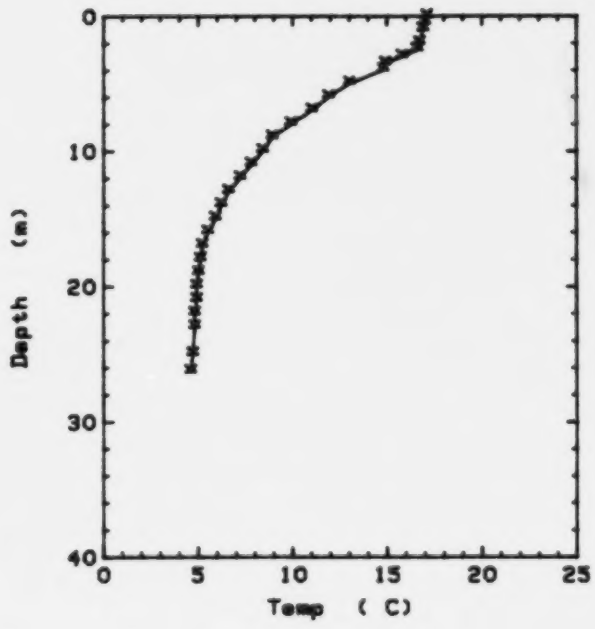
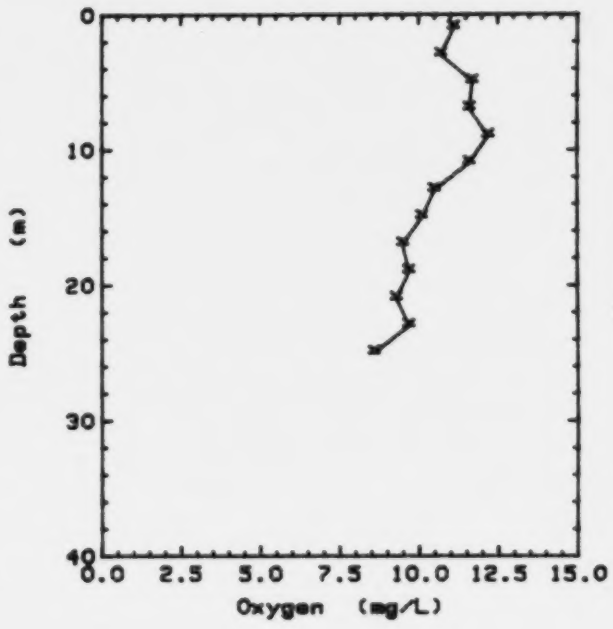
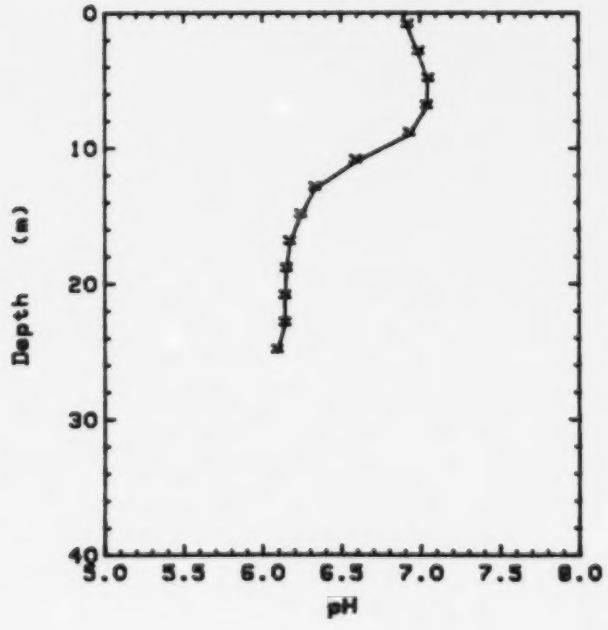


Figure 118

SOLITAIRE 84.06.06







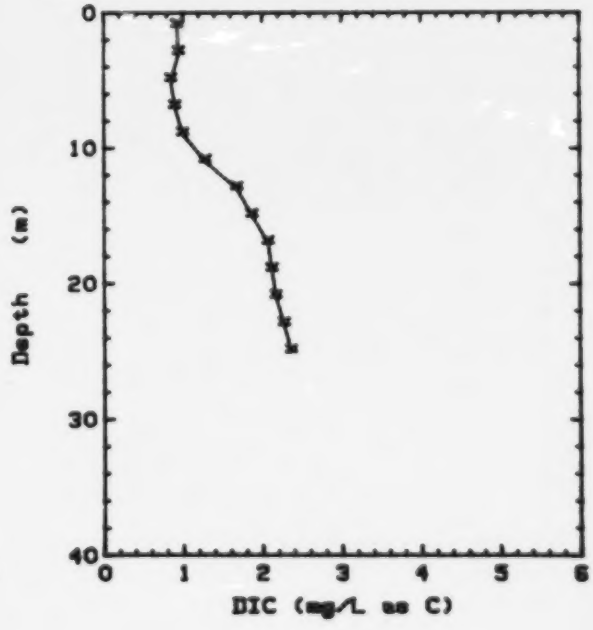


Figure 119

SOLITAIRE 84.07.05

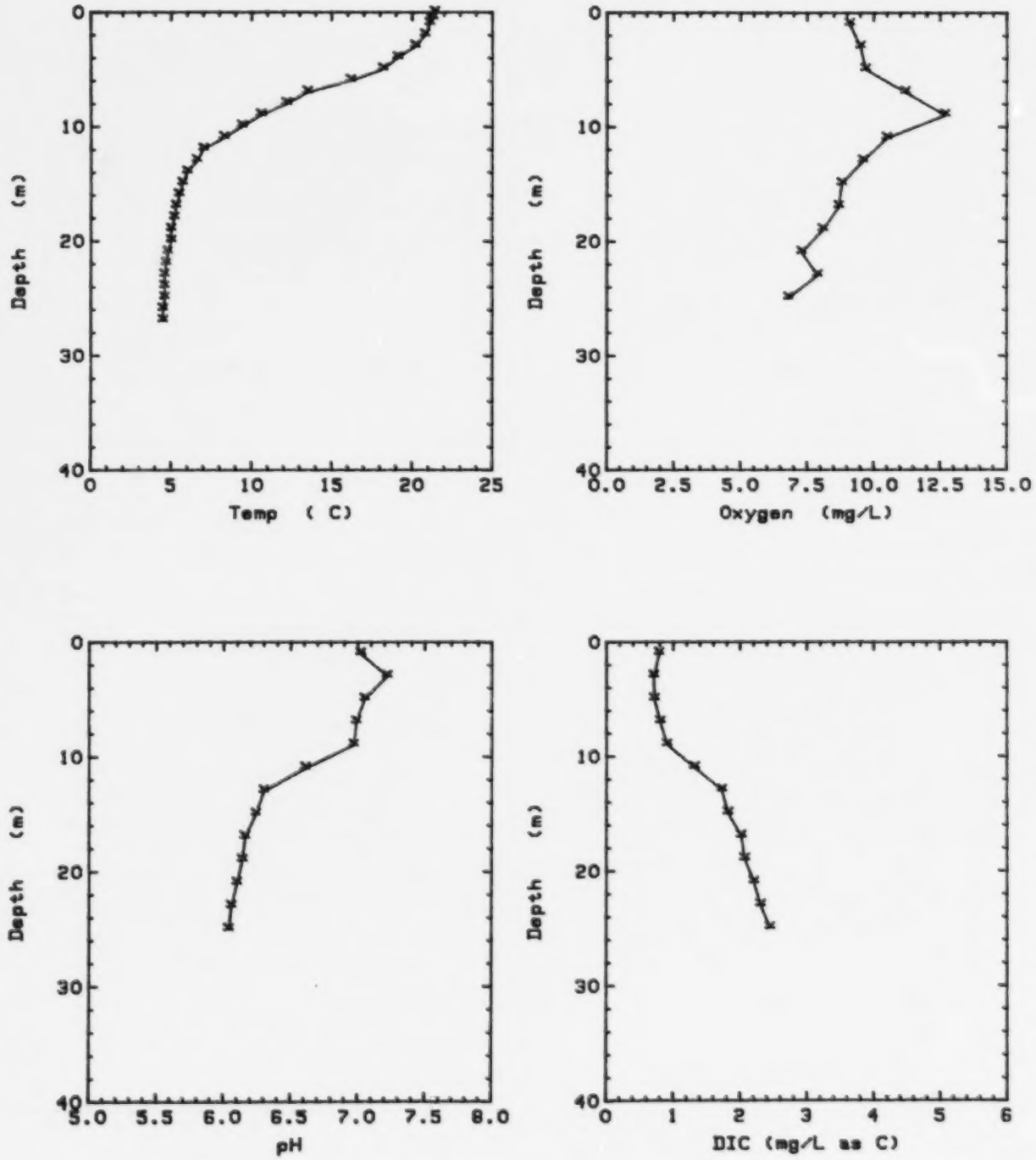
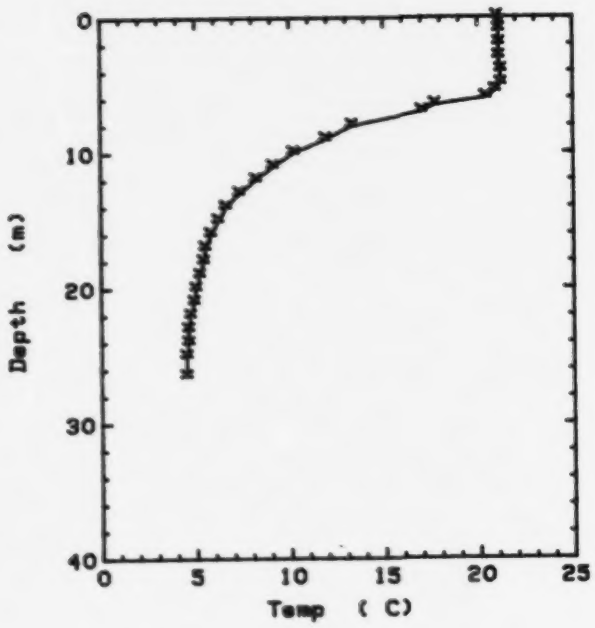
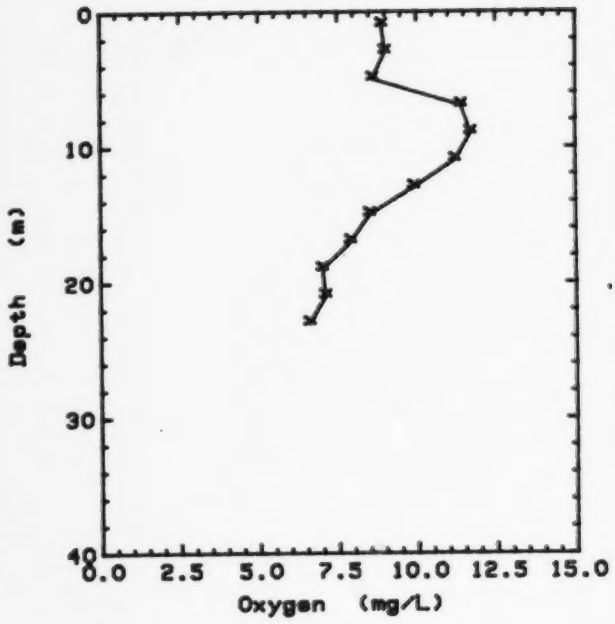
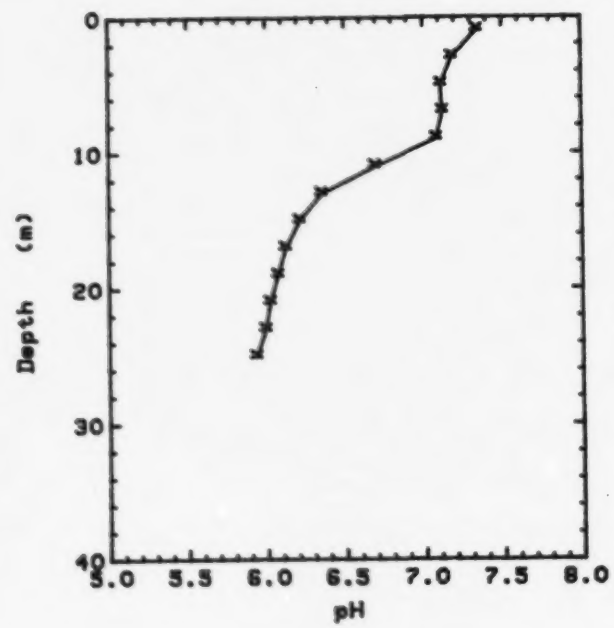


Figure 120

SOLITAIRE 84.08.01







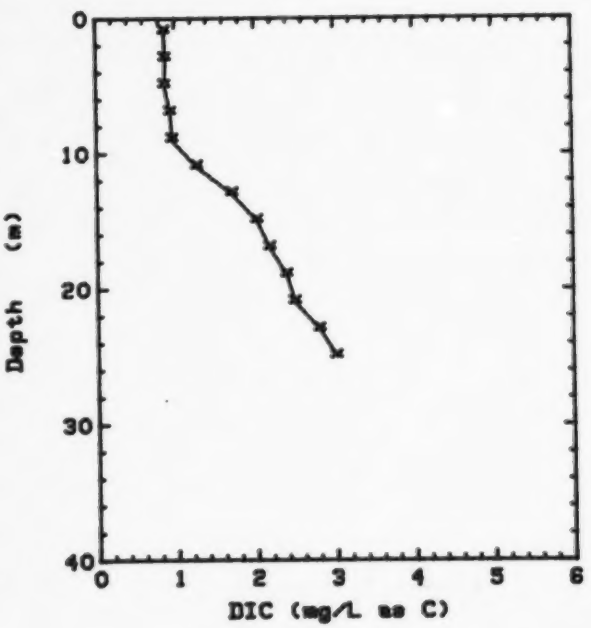
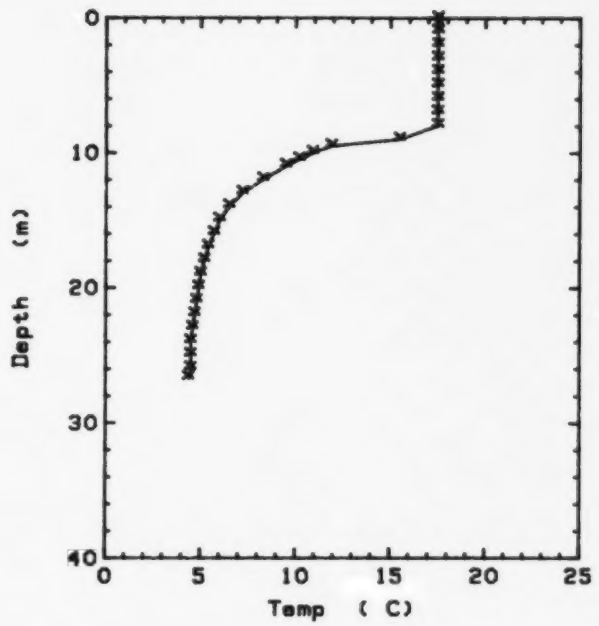
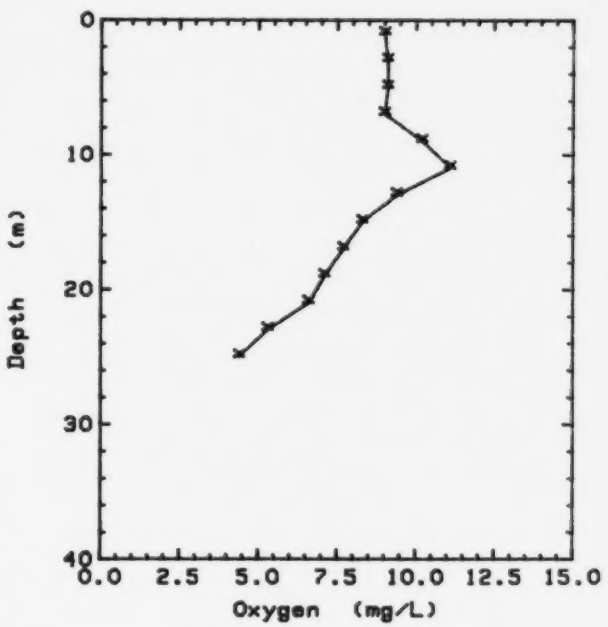
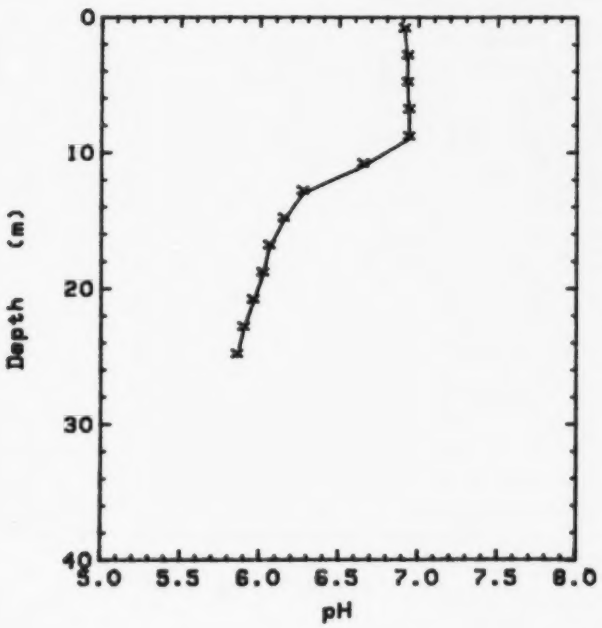


Figure 121

SOLITAIRE 84.09.13







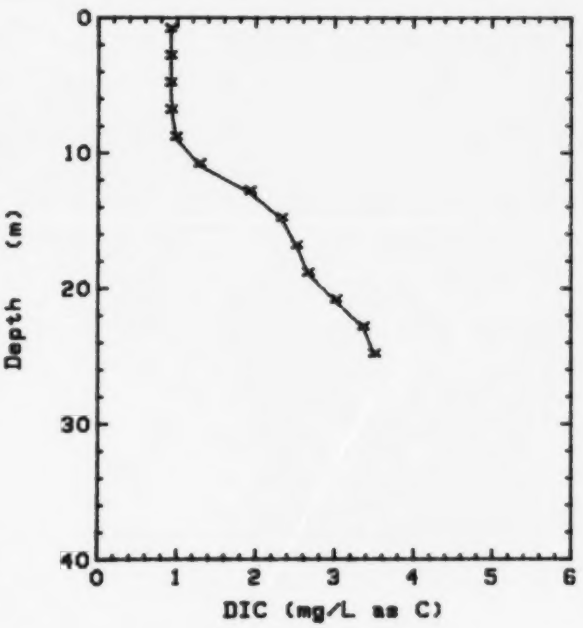
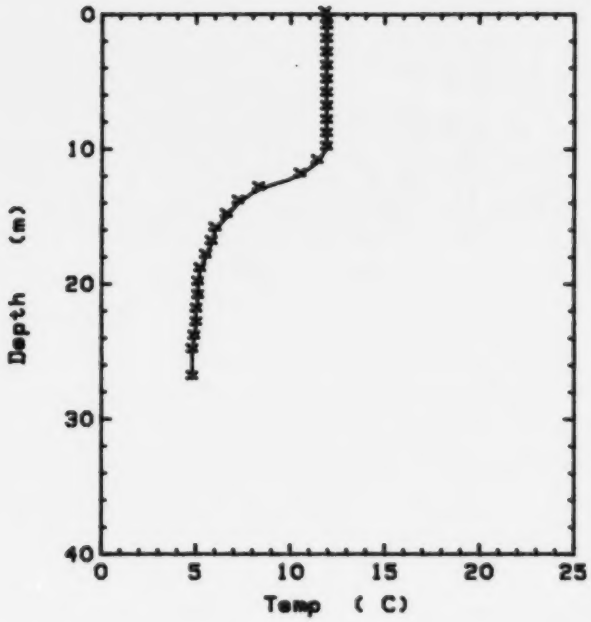
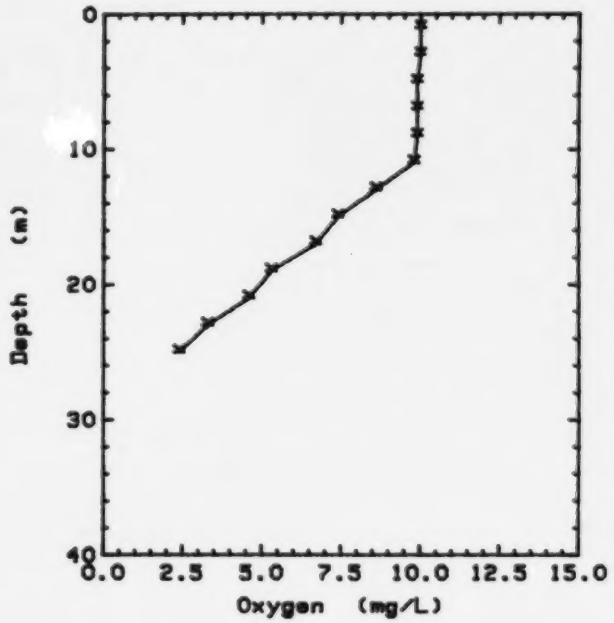
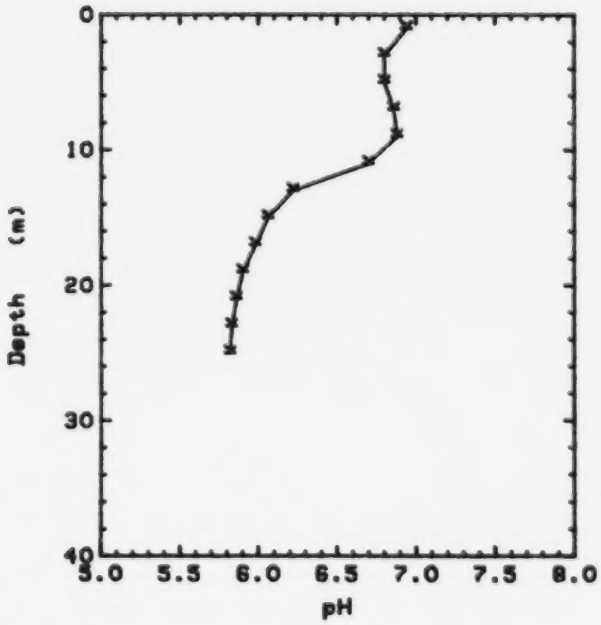


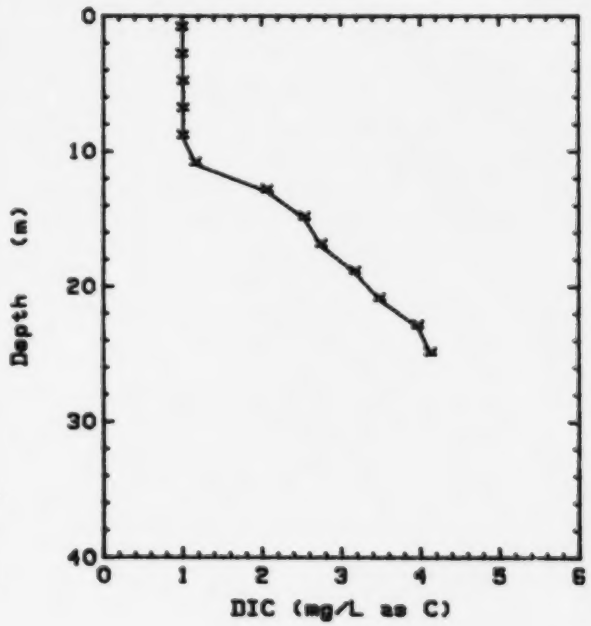
Figure 122

SOLITAIRE 84.10.25









Figures 123-140 - WALKER LAKE

Figure 123

WALKER 82.05.04

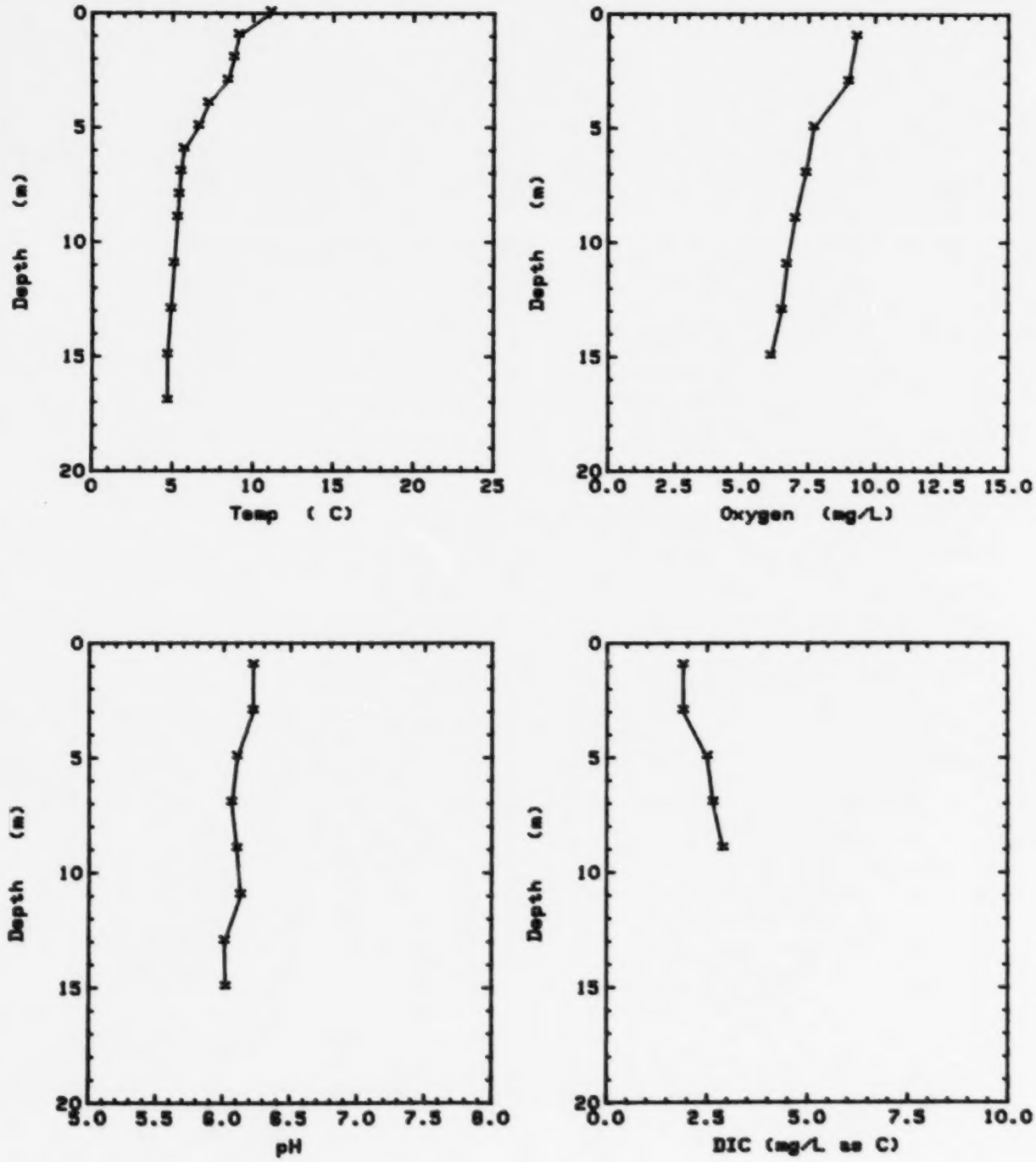
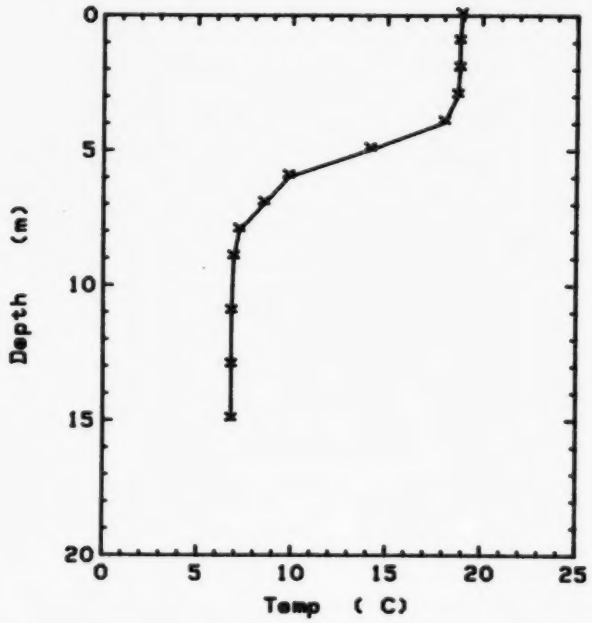
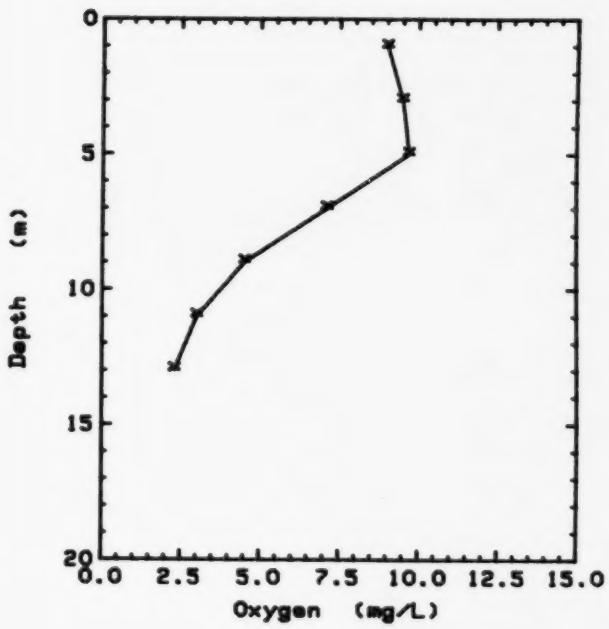
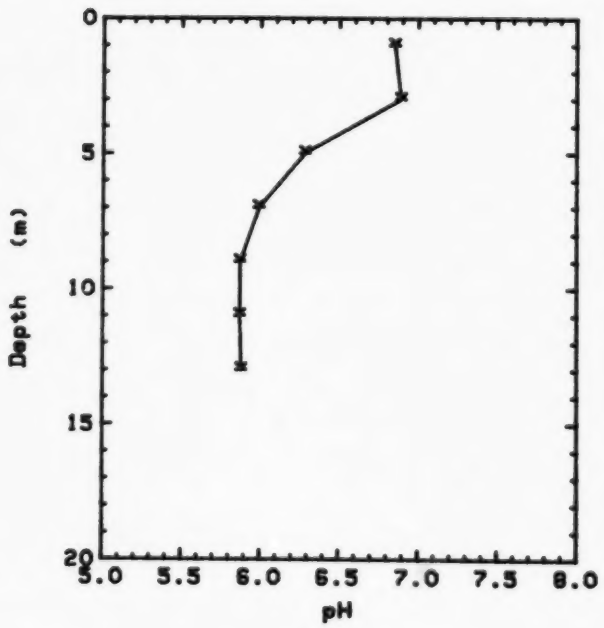


Figure 124

WALKER 82.06.23







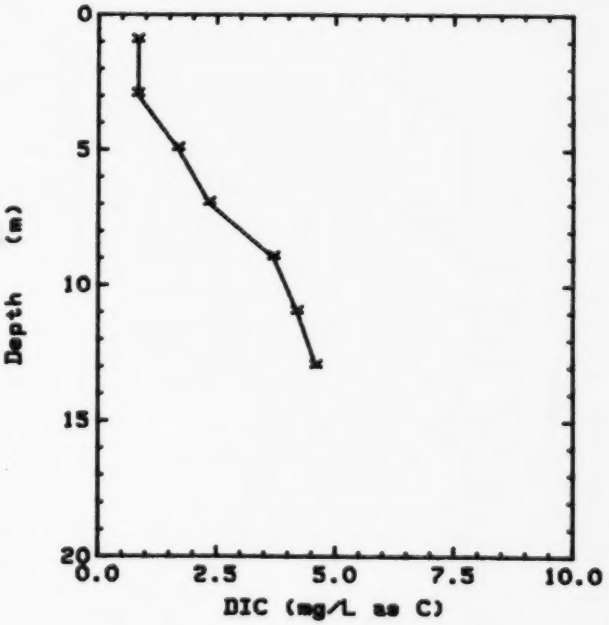


Figure 125

WALKER 82.07.21

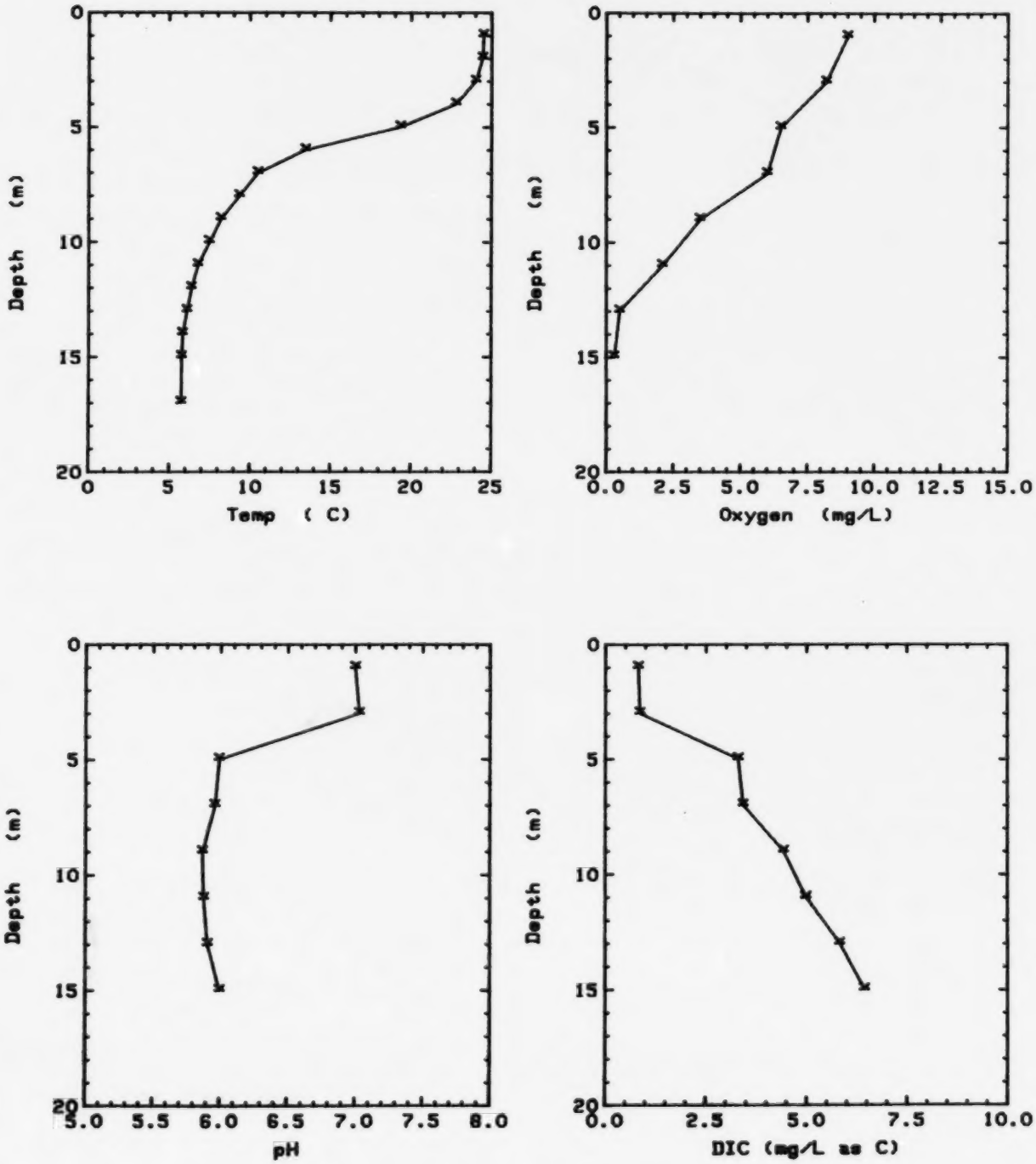


Figure 126

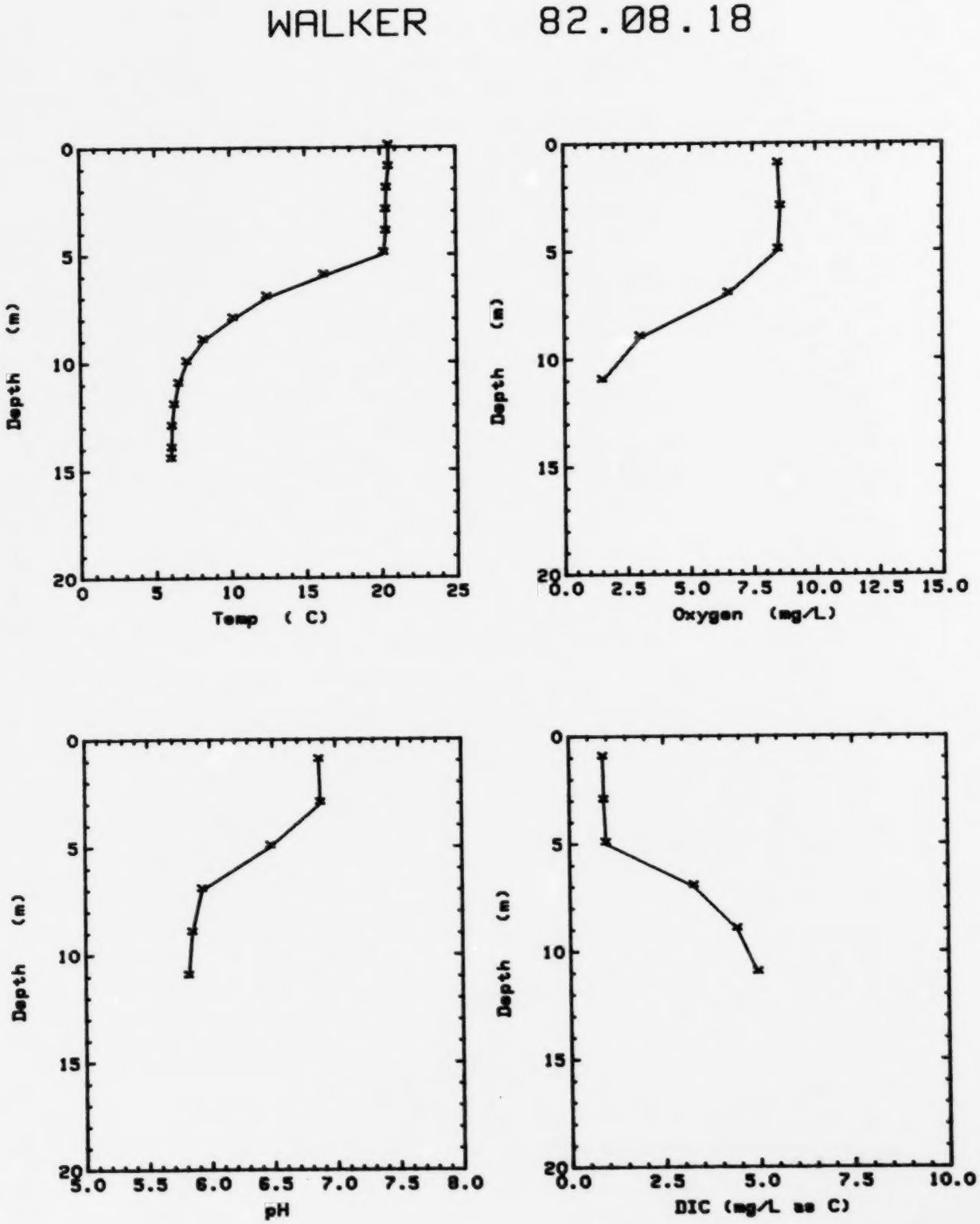


Figure 127

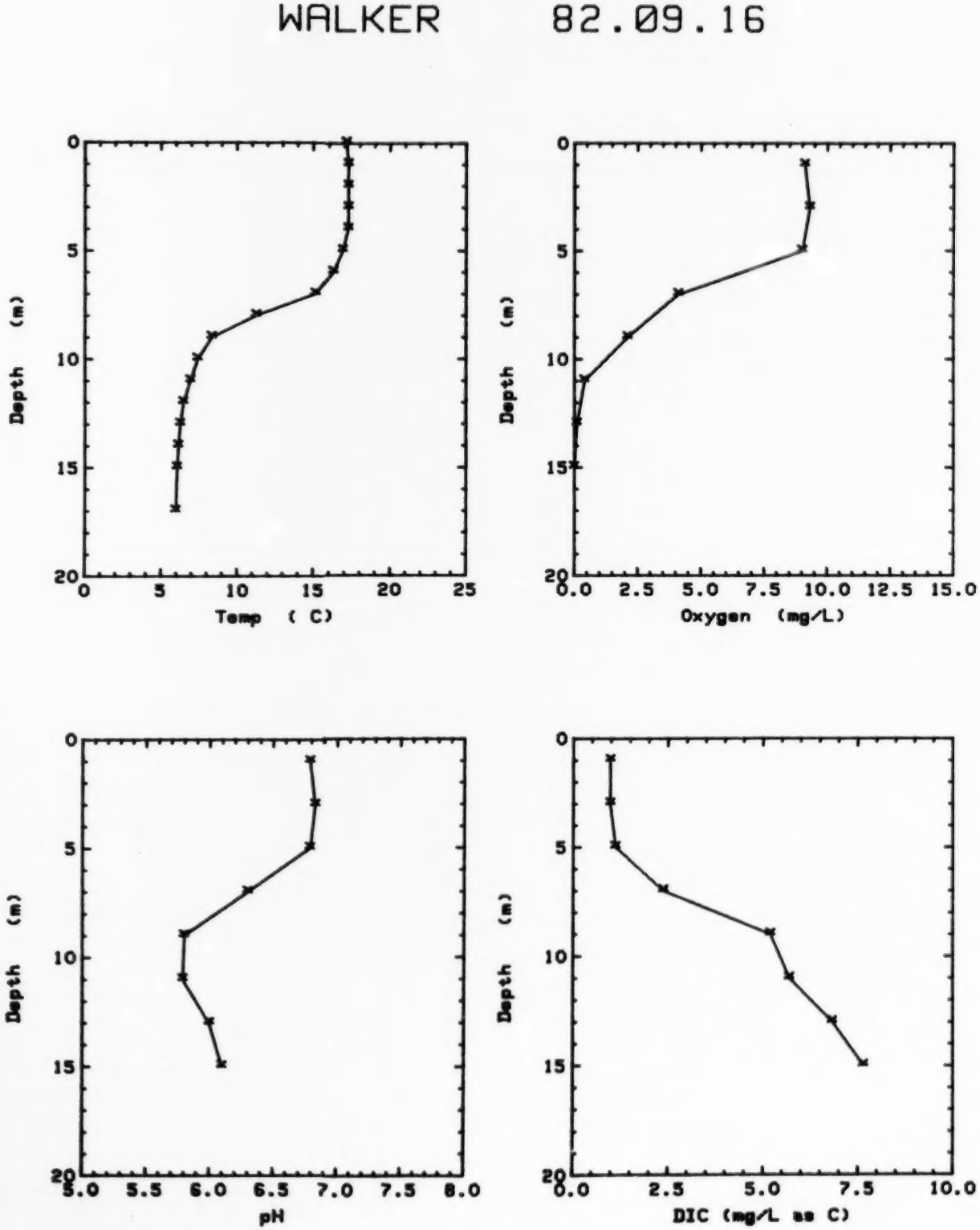


Figure 128

WALKER 82.10.21

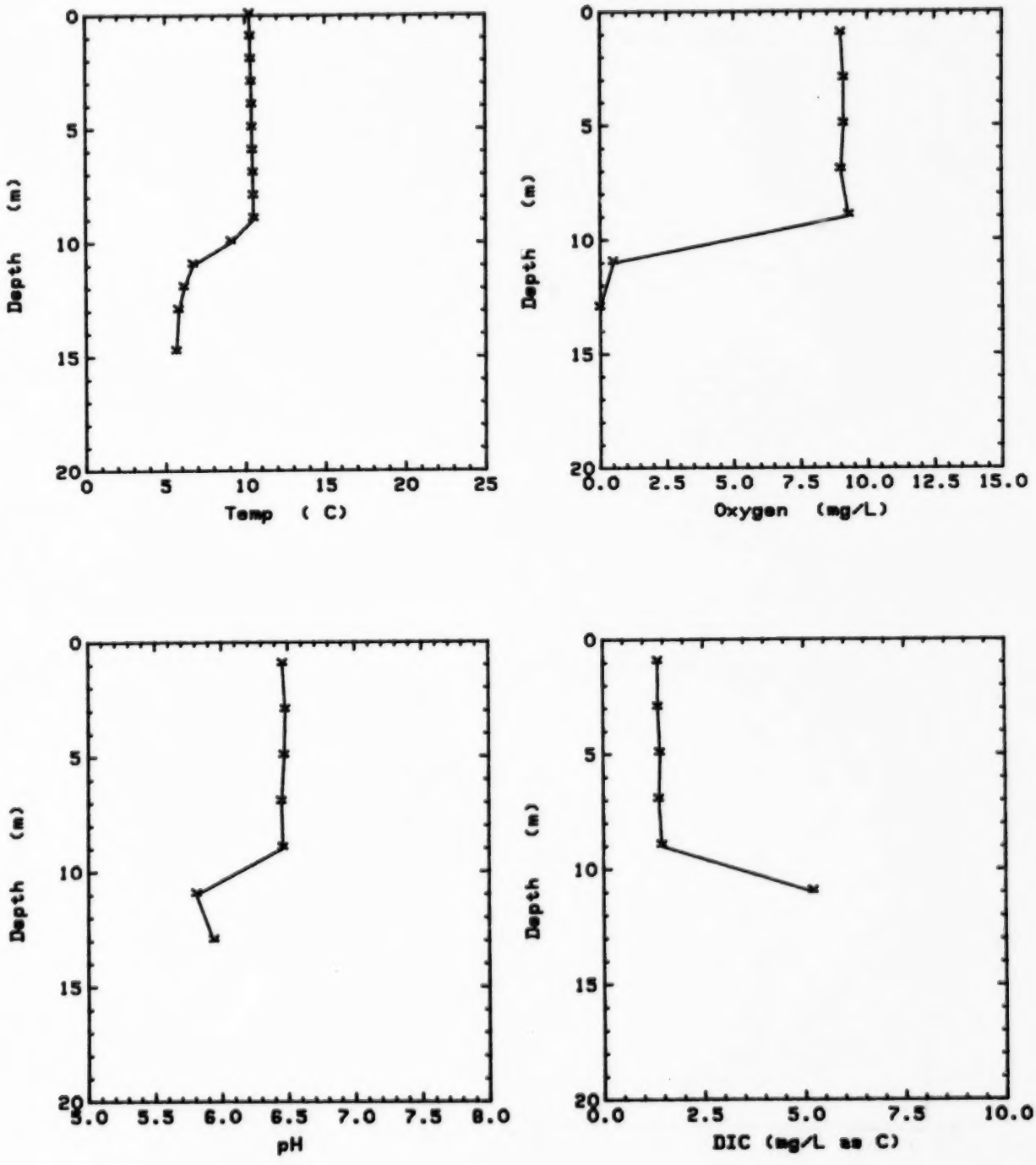


Figure 129

WALKER 83.04.27

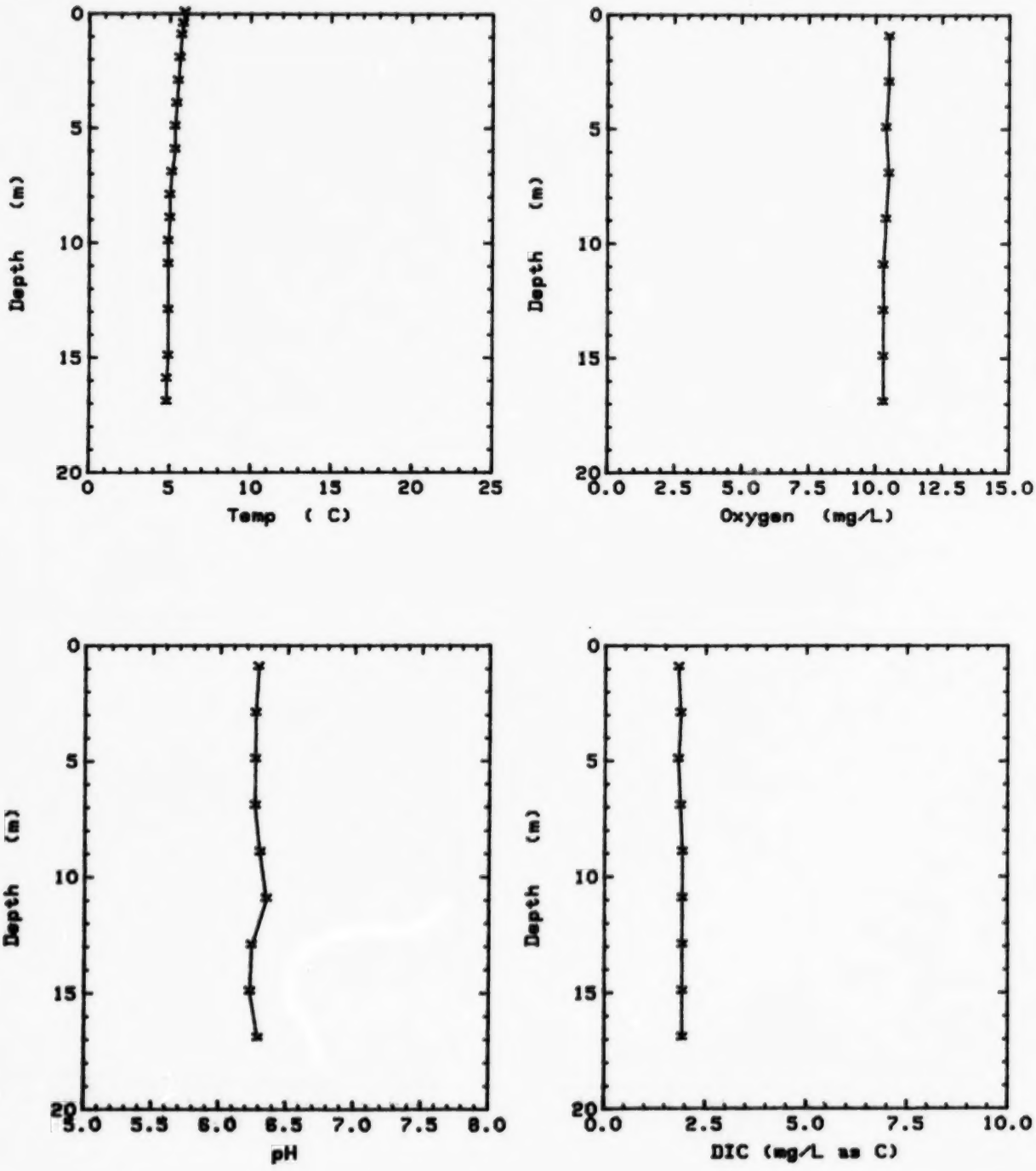


Figure 130

WALKER 83.05.30

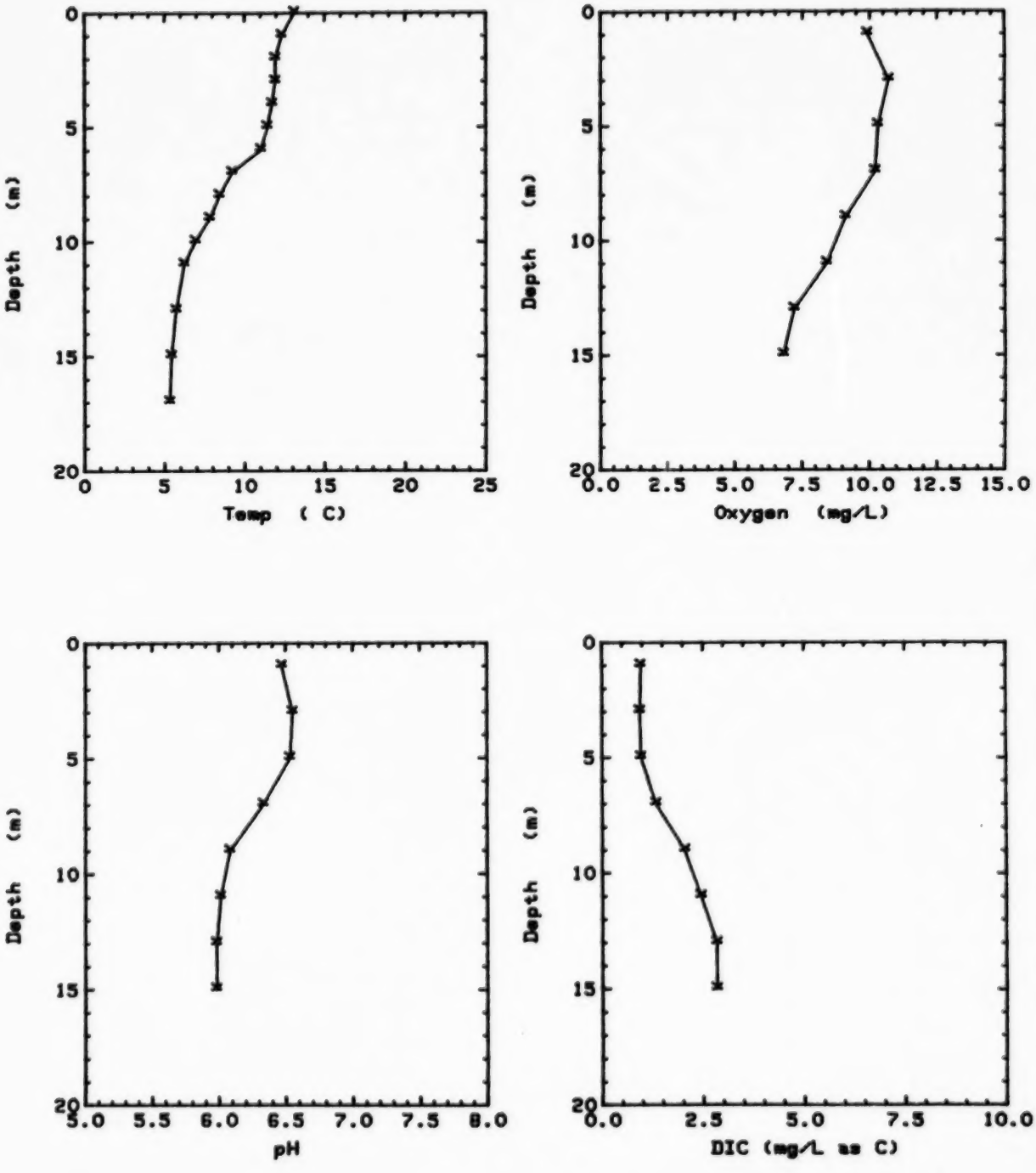


Figure 131

WALKER 83.06.29

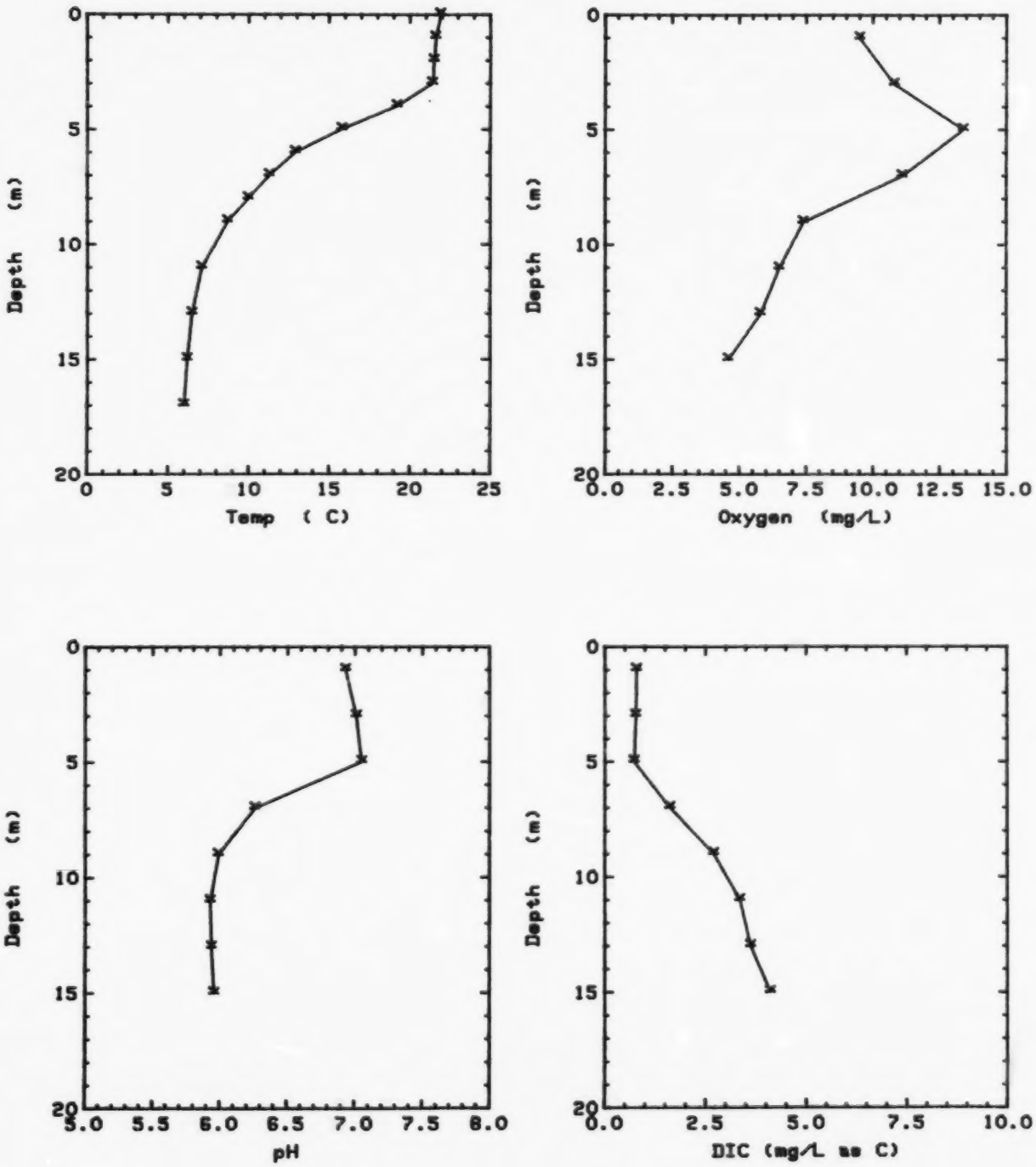


Figure 132

WALKER 83.07.27

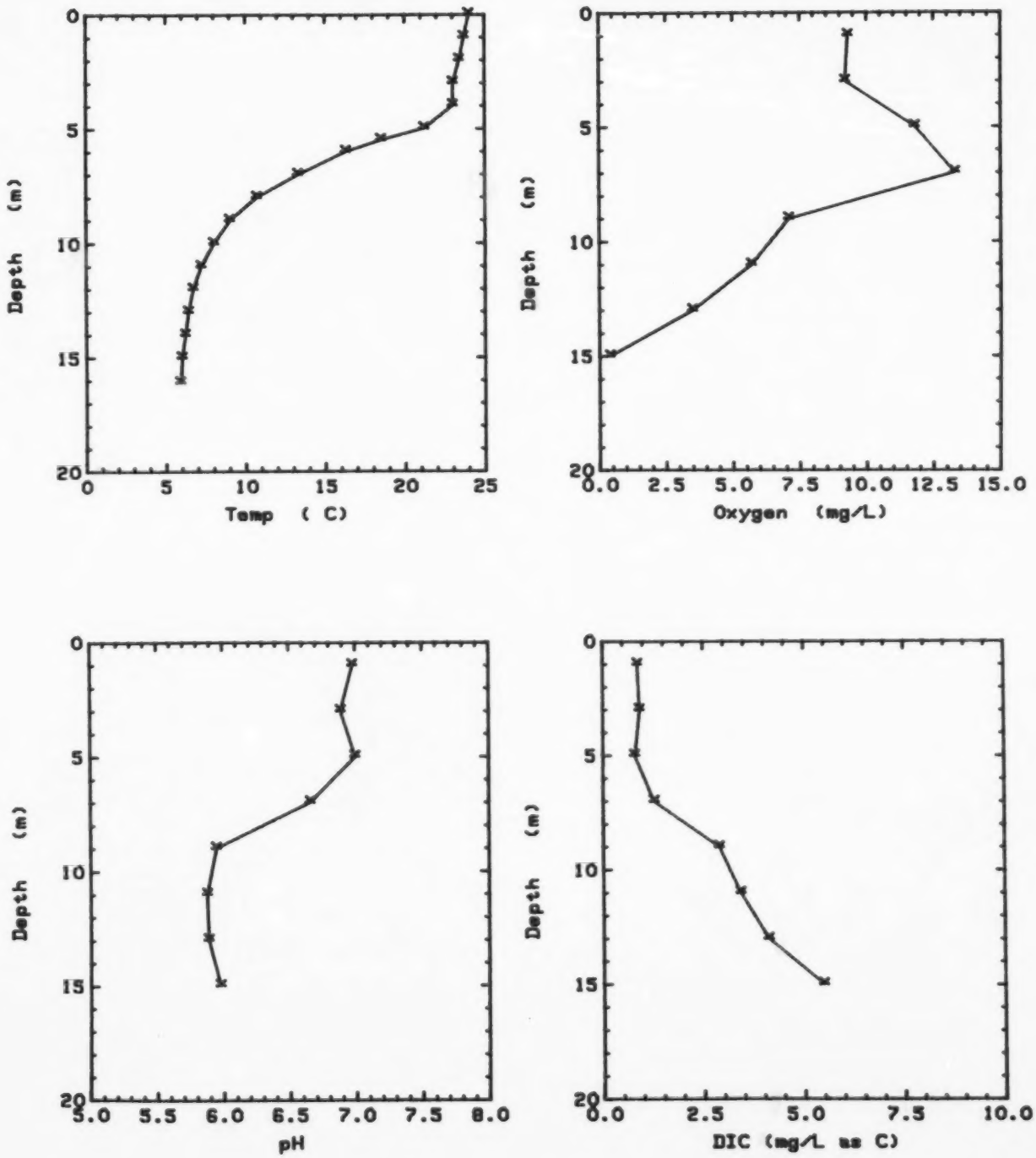


Figure 133

WALKER 83.08.24

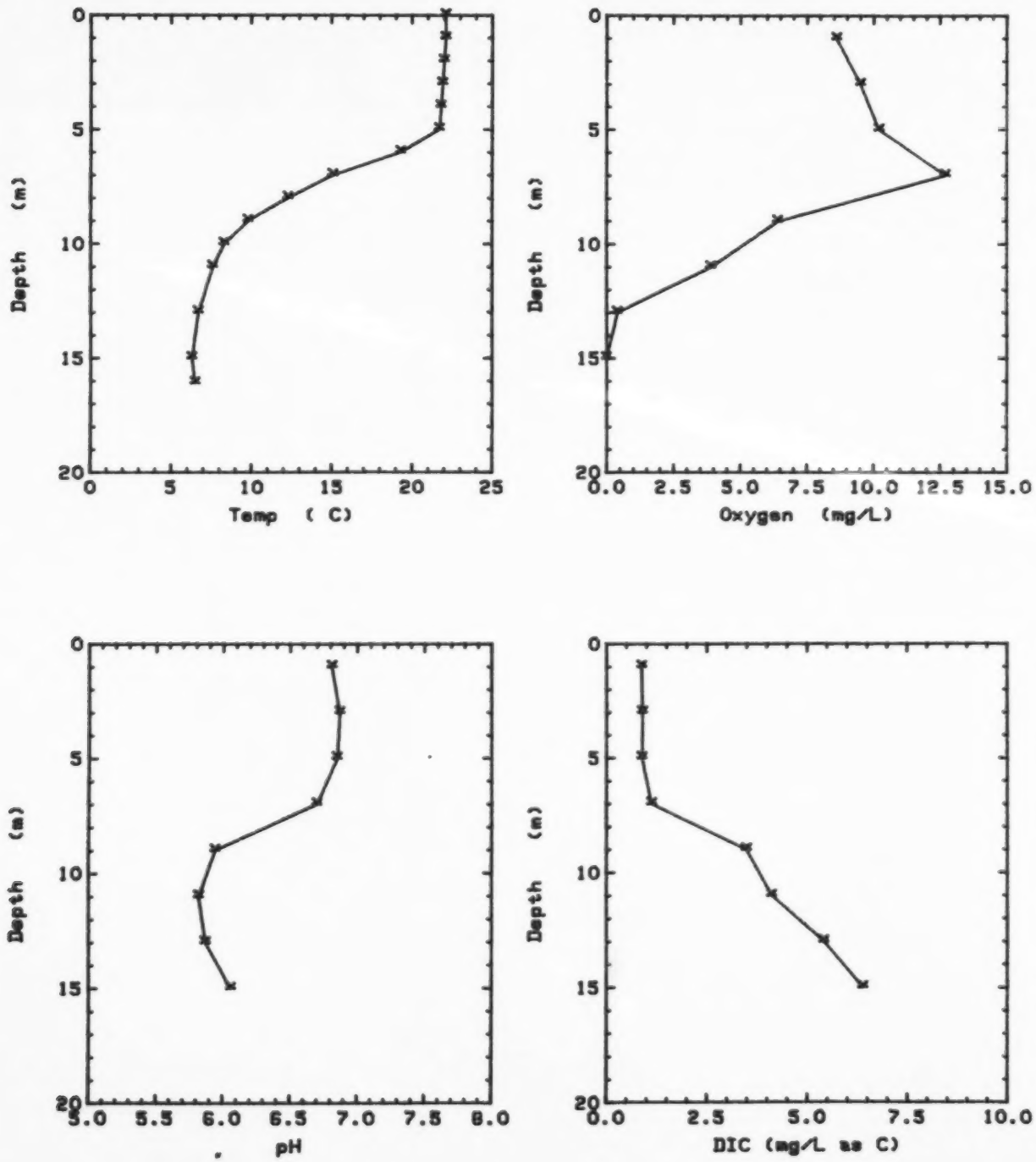


Figure 134

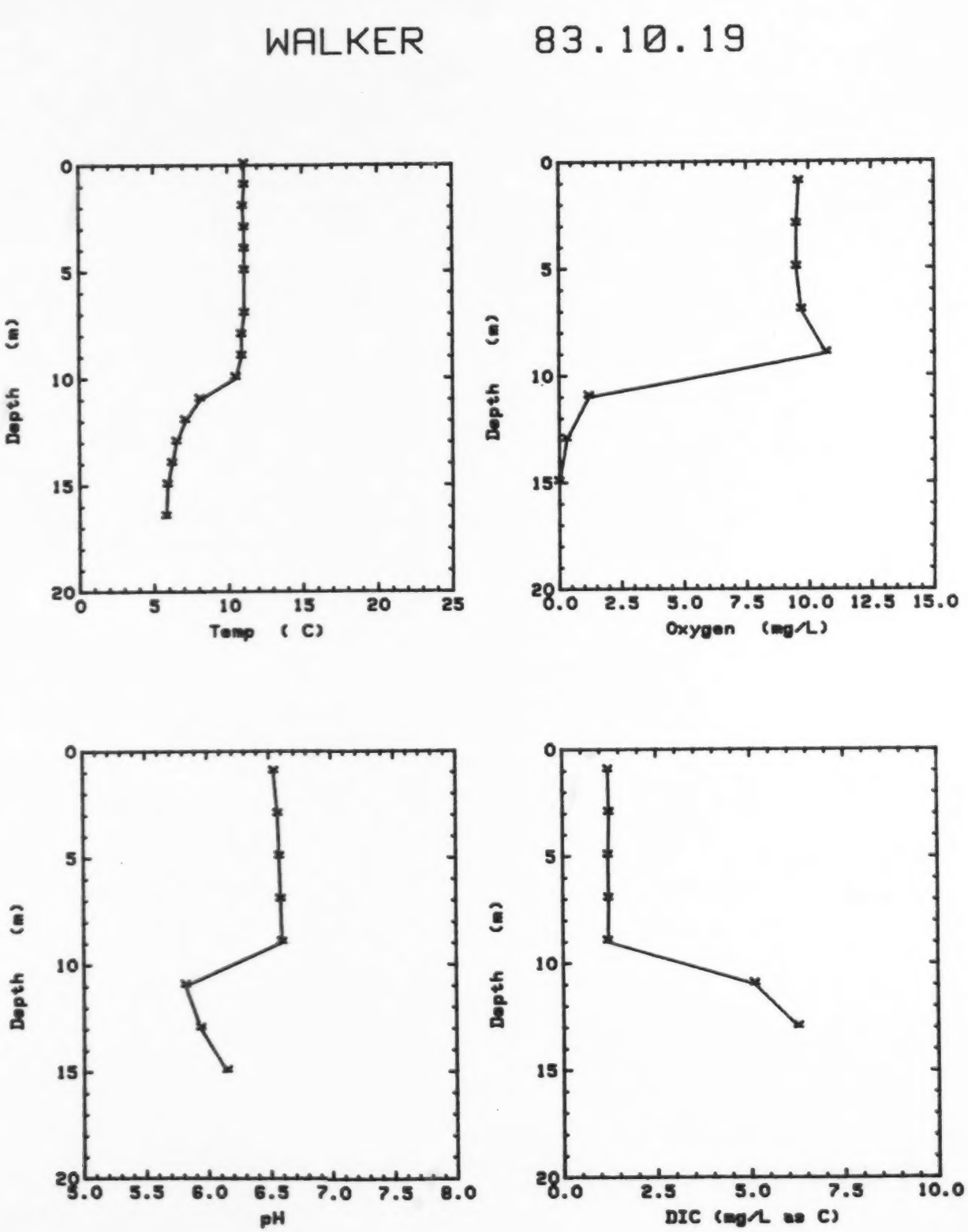


Figure 135

WALKER 84.05.17

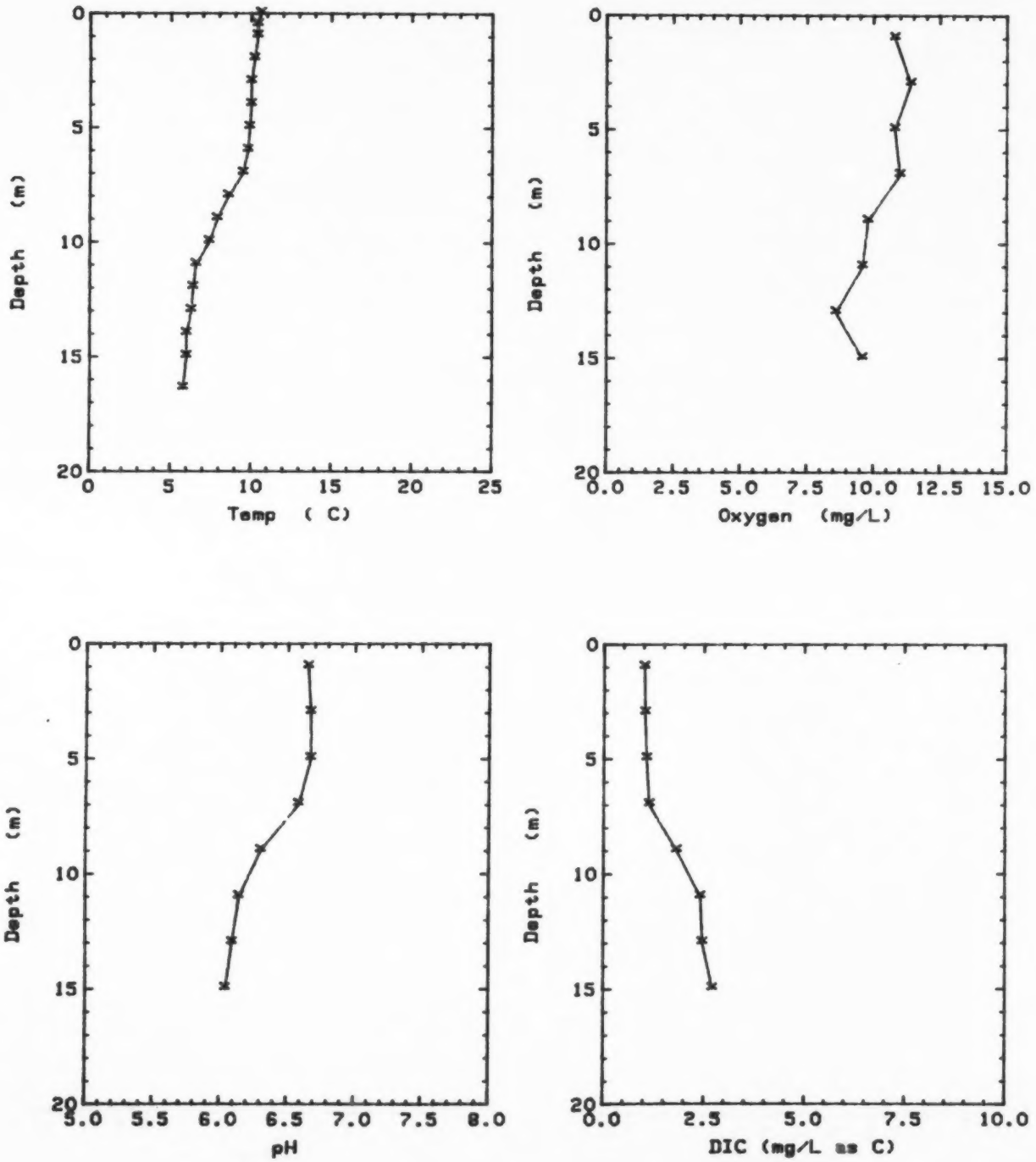
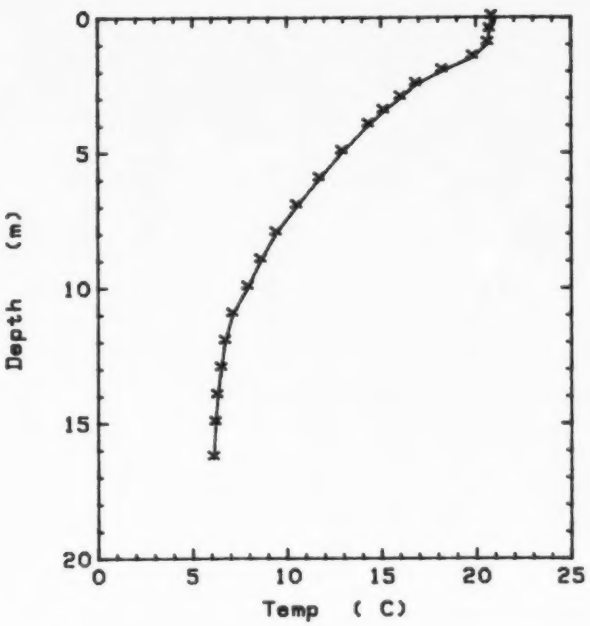
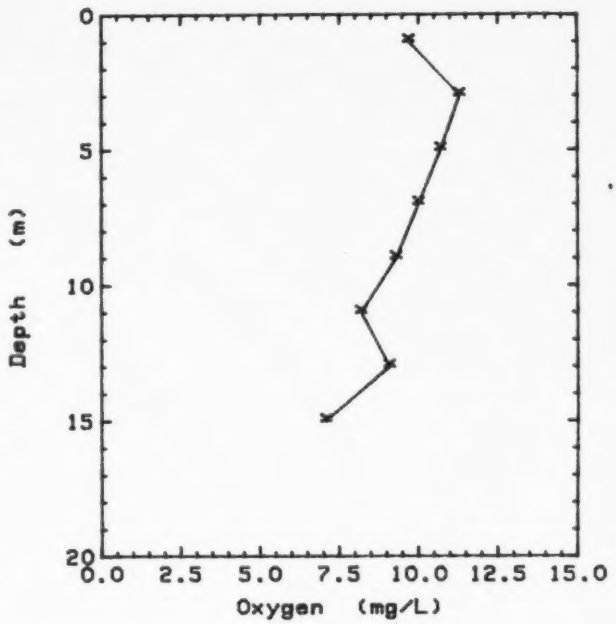
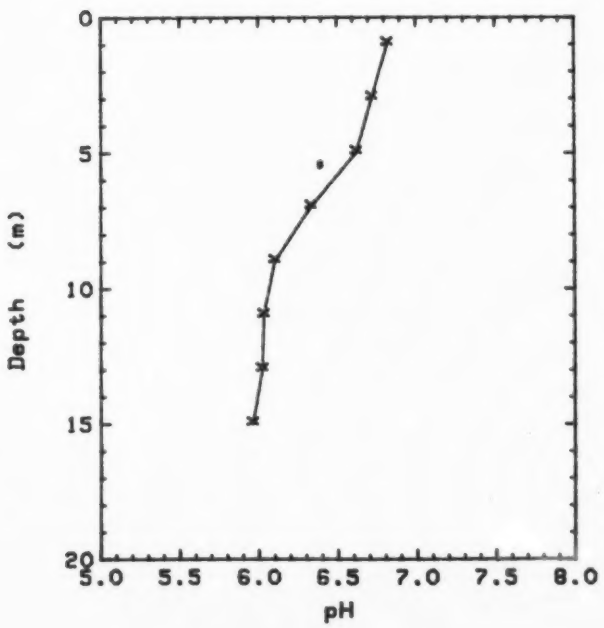


Figure 136

WALKER 84.06.07







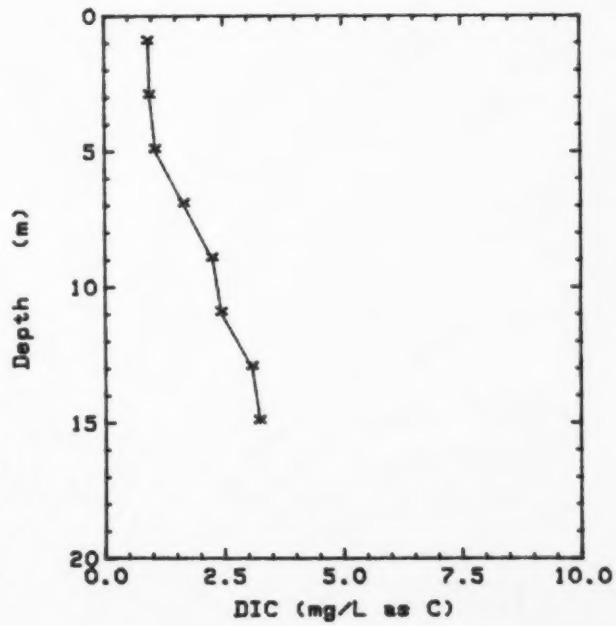


Figure 137

WALKER 84.07.05

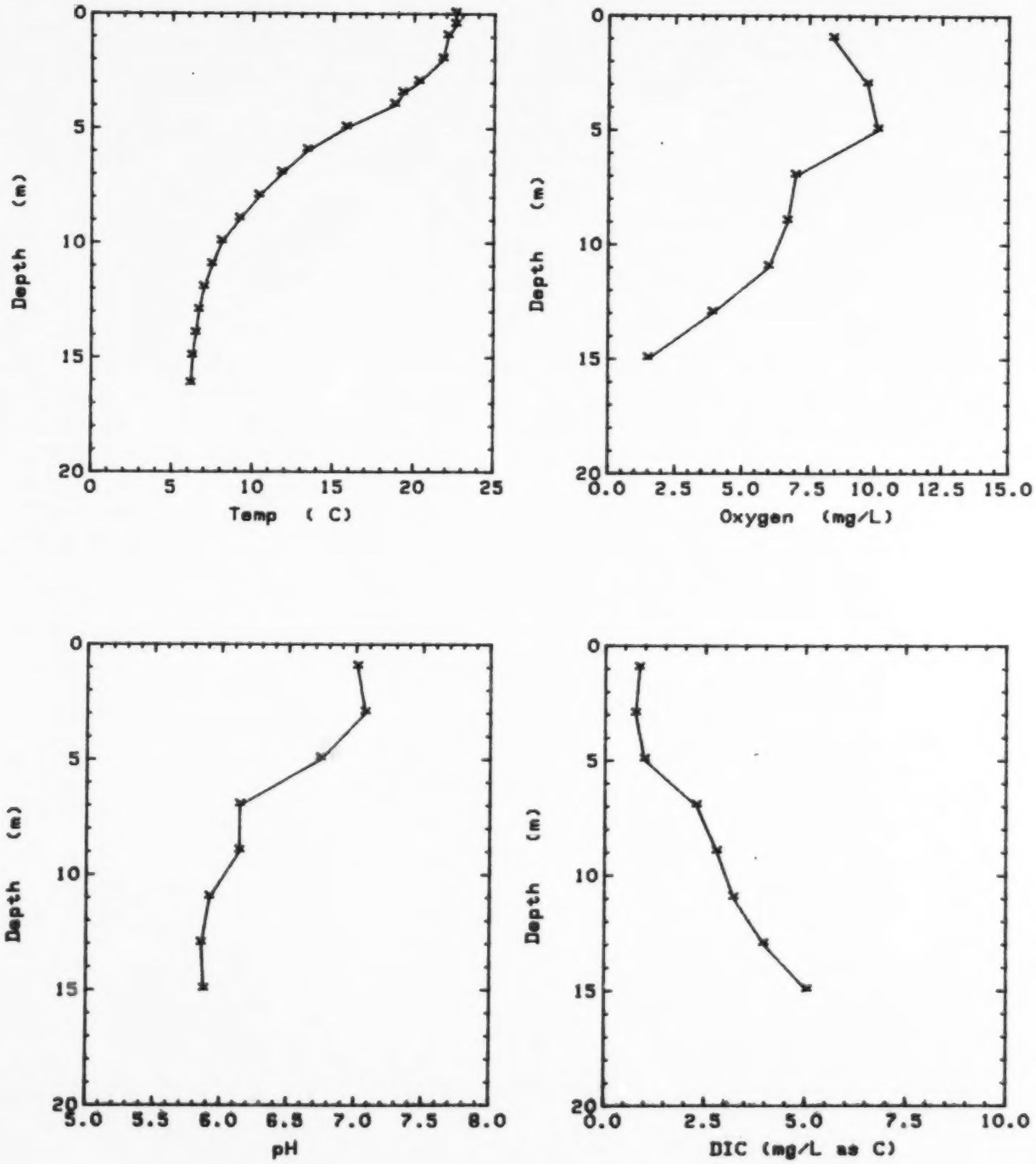
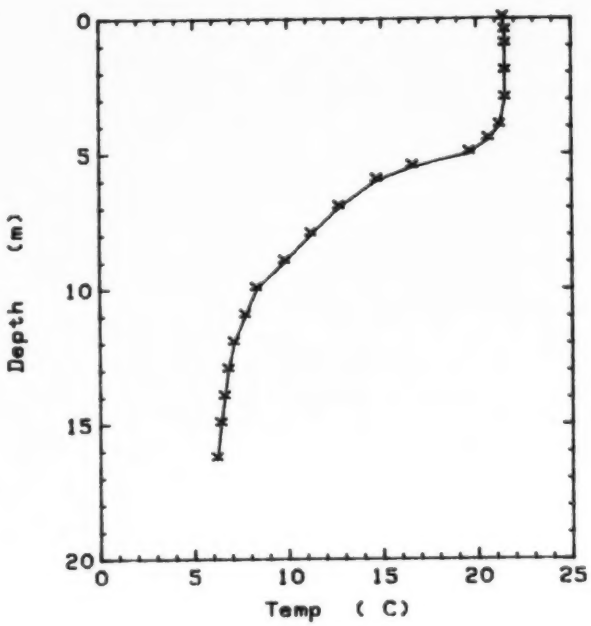
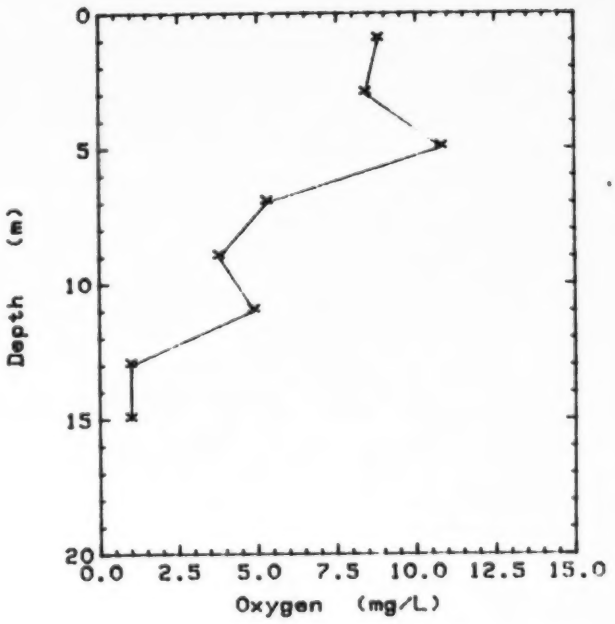
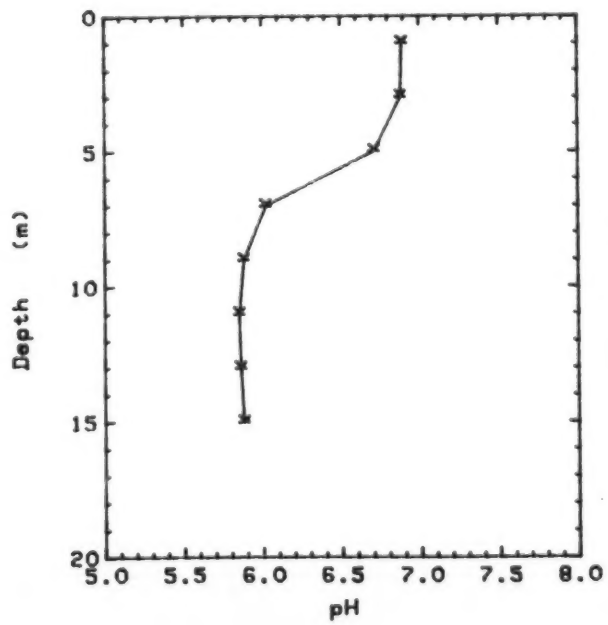


Figure 138

WALKER 84.08.01







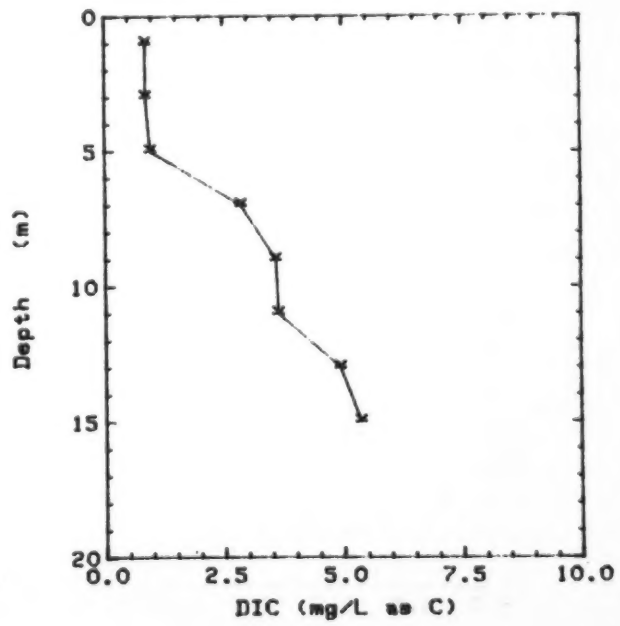


Figure 139

WALKER 84.08.30

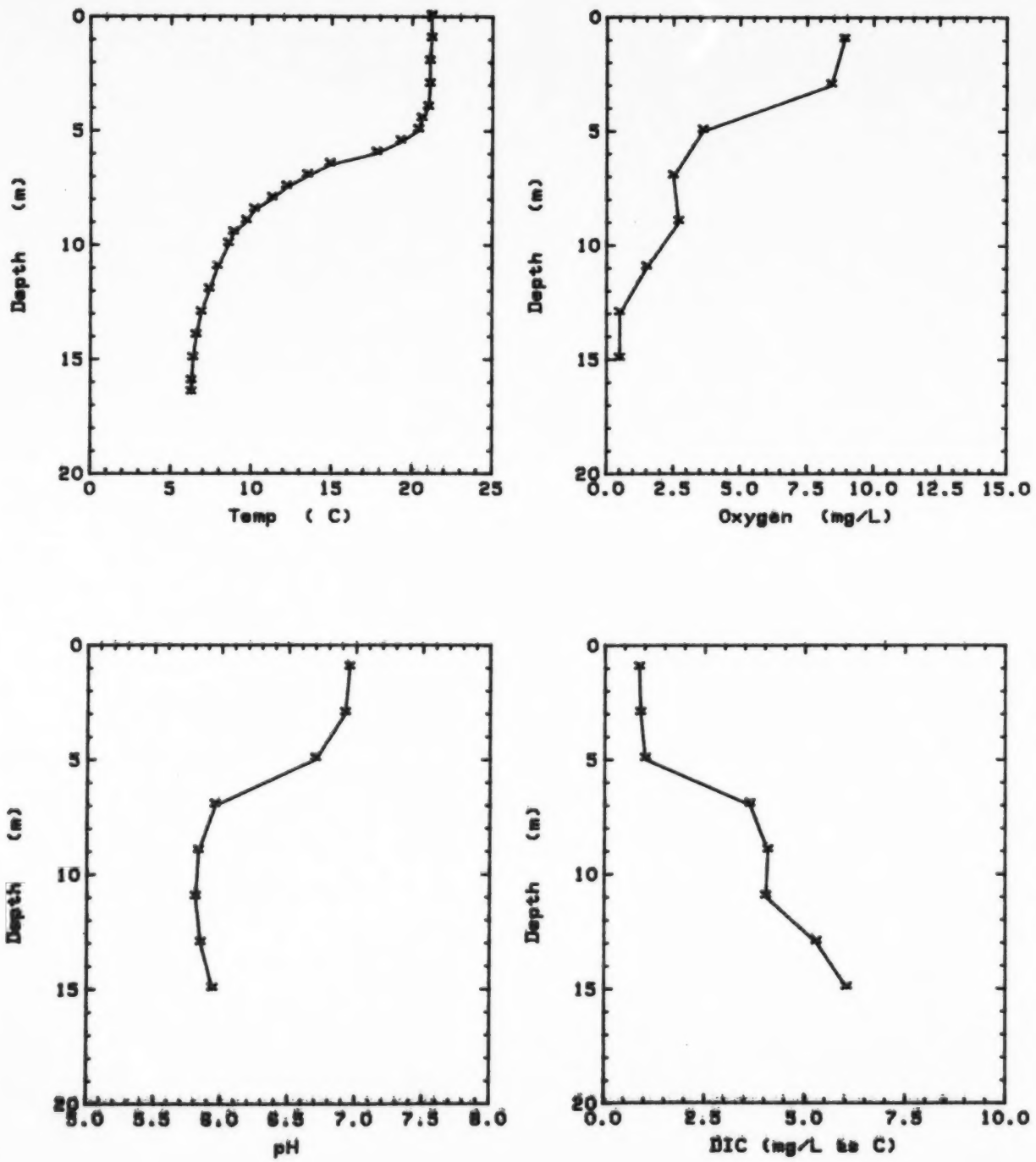


Figure 140

WALKER 84.10.31